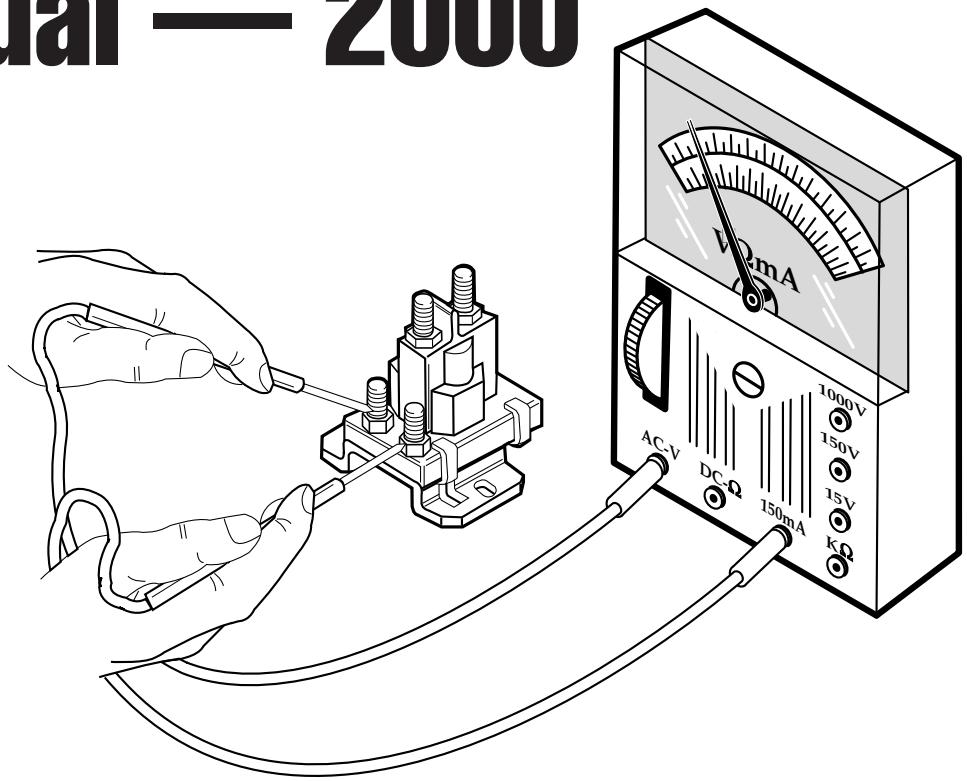
Simplicity®

MANUFACTURING, INC.

# Electrical Information Manual — 2000




**Wiring Schematics and**
**Specific Circuit Diagrams, including:**

- Ignition Circuit
- Charging Circuit
- Clutch Circuit
- Safety Start & Operator Present Circuit

Simplicity® MASSEY FERGUSON AGCO ALLIS

# ELECTRICAL INFORMATION INDEX 1999-2000

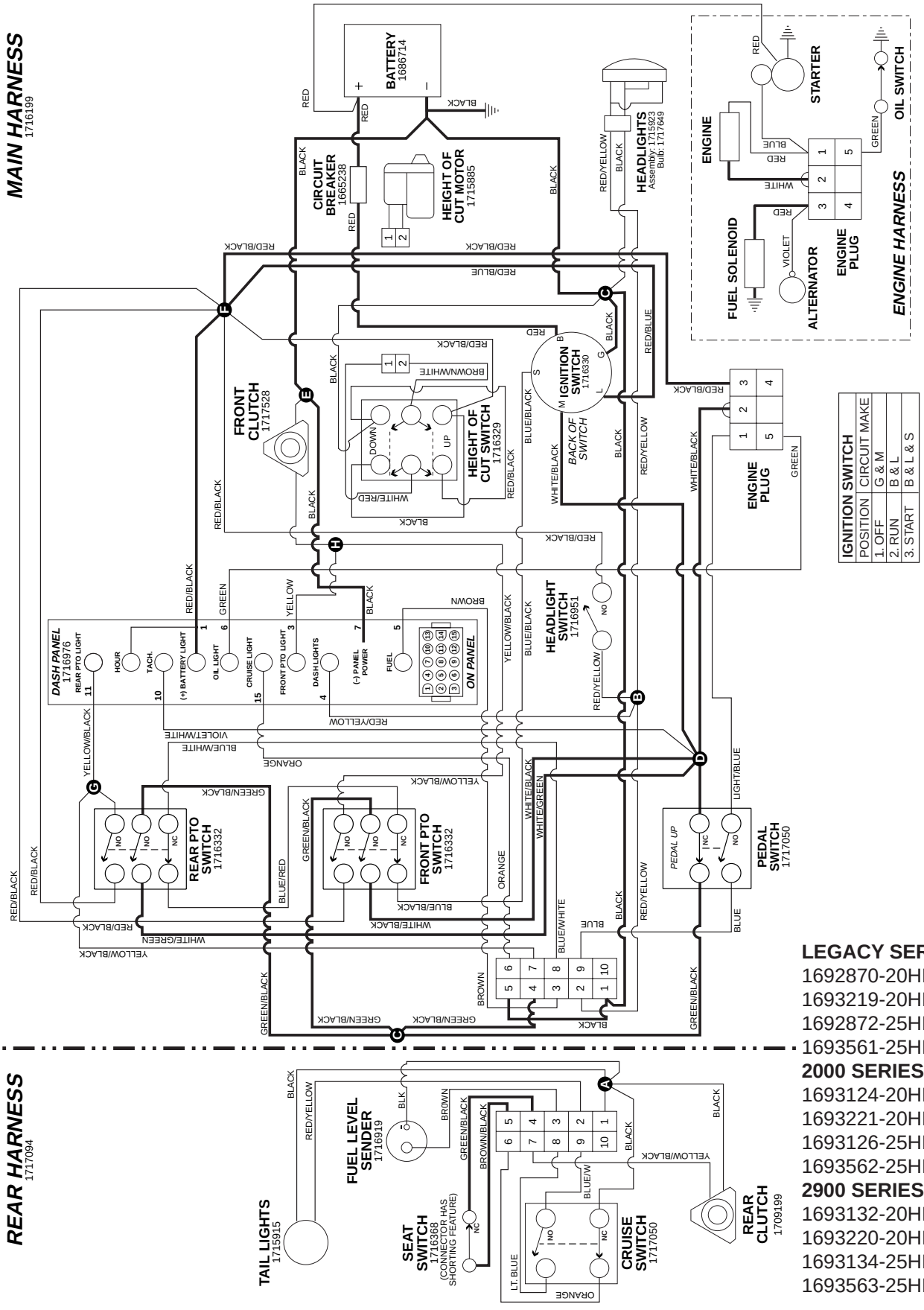

| | *Simplicity* | *AGCO-Allis* | *Massey-Ferguson* | *Page* |
|---|---|---|---|---|
| **Legacy/2000/2900** | **Legacy Series** | **2000 Series** | **2900 Series** | |
| 20 & 25 HP Units | 1692870 20HP | 1693124 20HP | 1693132 20HP | 2 |
| | 1692872 25HP | 1693126 25HP | 1693134 25HP | |
| | 1693219 20HP | 1693221 20HP | 1693220 20HP | |
| | 1693561 25HP FH | 1693562 25HP FH | 1693563 25HP FH | |
| 20 HP Liq. Cool. | 1692871 20HP | 1693128 20HP | 1693136 20HP | 7 |
| 25.5 HP Diesel Units | 1693112 25.5HP | 1693130 25.5HP | 1693138 25.5HP | 12 |
| **Sovereign/900/2800** | **Sovereign Series** | **900 Series** | **2800 Series** | |
| All units | 1692889 18HP-75th | 1692949 18HP | 1692953 18HP | 16 |
| | 1692943 18HP | 1692951 18HP | 1692955 18HP | |
| | 1692945 18HP | 1693413 18HP | 1693417 18HP | |
| | 1693409 18HP | 1693411 18HP PS | 1693415 18HP PS | |
| | 1693407 18HP PS | | | |
| **Landlord/1700/2700** | **Landlord Series** | **1700 Series** | **2700 Series** | |
| 18 & 20 HP units | 1693381 18HP | 1693397 18HP | 1693403 18HP | 20 |
| | 1693383 20HP | 1693399 20HP | 1693405 20HP | |
| 17 HP Liq. Cool. | 1693379 17HP | 1693395 17HP | 1693401 17HP | 24 |
| **Broadmoor/1600/2600** | **Broadmoor Series** | **1600 Series** | **2600 Series** | |
| All units except Hand | 1693580 16HP | 1693596 16HP | 1693598 16HP | 28 |
| Control | 1693592 16HP | 1693617 16HP | 1693622 16HP | |
| | 1693694 17HP | 1693698 17HP | 1693700 17HP | |
| | 1693600 18HP | 1693602 18HP | 1693604 18HP | |
| Hand Control Unit | 1693694 17HP | 1693698 17HP | 1693700 17HP | 32 |
| **Baron Series** | | | | |
| All Units | 1693580 18HP | 1693580 18HP | 1693580 18HP | 36 |
| **Regent/500/2500** | **Regent Series** | **500 Series** | **2500 Series** | |
| 14, 16 & 17 HP Hydro units | 1693325 14HP | 1693341 14HP | 1693347 14HP | 40 |
| | 1693329 16HP | 1693343 16HP | 1693349 16HP | |
| | 1693528 15HP | 1693540 15HP | 1693546 15HP | |
| | 1693530 16HP | 1693542 16HP | 1693548 16HP | |
| | 1693532 17HP | 1693544 17HP | 1693550 17HP | |
| 14 HP Gear units | 1693323 14HP | 1693339 14HP | 1693345 14HP | 44 |
| **Express Series** | | | | |
| Gear & Hydro units | 1693452 14.5HP | 1693452 14.5HP | 1693452 14.5HP | 48 |
| | 1693458 15.5HP-H | 1693458 15.5HP-H | 1693458 15.5HP-H | |
| | 1693525 17HP-H | 1693525 17HP-H | 1693525 17HP-H | |
| **ZT & Coronet/400/2400** | **ZT & Coronet Series** | **ZT & 400 Series** | **ZT & 2400 Series** | |
| Gear & Hydro units | 1693230 18HP | 1693232 18HP | 1693234 18HP | 51 |
| | 1693286 14HP | 1693296 14HP | 1693300 14HP | |
| | 1693288 16HP | 1693298 16HP | 1693302 16HP | |
| | 1693467 14HP | 1693469 14HP | 1693471 14HP | |
| | 1693473 16HP | 1693475 16HP | 1693477 16HP | |
| | 1693305 13HP | 1693317 14HP | 1693321 14HP | |
| | 1693307 14HP | 1693315 11HP-G | 1693319 11HP-G | |
| | 1693303 11HP-G | | | |
| **Chipper/Shredder** | **6/14 Chipper/Shredder** | | | |
| All units | 1692902 5.5HP | | | 55 |
| **Chipper/Vacuum** | **8/25 Chipper/Vacuum** | | | |
| All units | 1692466 8HP | | | 56 |
| | 1692586 8HP | | | |

**The following safety starting and running conditions must be met for all electrical wiring, switches and related components.**

1. All units must be tested for correct wiring and function of all circuits and switches.
2. Engine operation must stop when the following conditions prevail:
    A. Ignition switch is placed in the off position.
    B. The operator is not seated with either the transmission or the PTO in the engaged position and parking brake not applied. (Most models)
3. Engine must not start by conventional means unless all of the following conditions are met. Each condition must be checked thoroughly to insure proper operation sequences:
    A. Ignition switch is intentionally placed in the start position.
    B. Shift lever is in neutral.
    C. The PTO switch is in the disengaged position.
    D. The operator is seated. (Some models)
    E. Clutch/brake pedal must be fully depressed. (Most models)
4. Engine must remain running if operator is seated and the following conditions are met (Check thoroughly to insure proper operation):
    A. Transmission is engaged.
    B. PTO is engaged.
5. If operator is not seated, the engine must continue to run only if the following conditions are met:
    A. PTO is not engaged.
    B. Transmission is in neutral.
    C. Parking brake pedal is set. (Most models)
6. Function of seat switch must be tested with switch mounted in proper position.

***NOTE: ALL SWITCH POSITIONS SHOWN WITH TRACTOR PARKED, ENGINE OFF, NO OPERATOR ON THE SEAT, AND PARKING BRAKE SET. (On most models.)***

## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

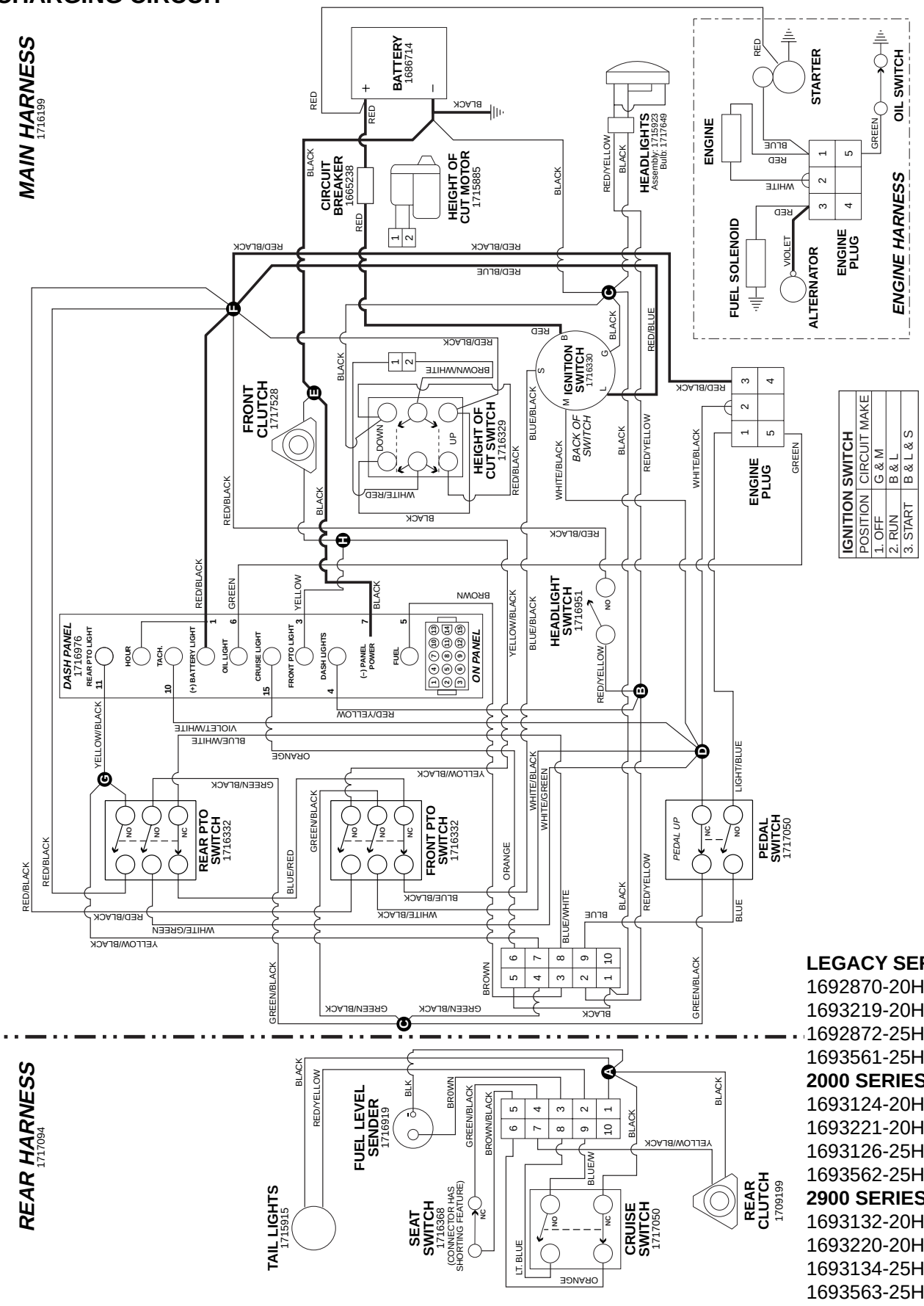



**LEGACY SERIES**
1692870-20HP
1693219-20HP
1692872-25HP
1693561-25HP FH

**2000 SERIES**
1693124-20HP
1693221-20HP
1693126-25HP
1693562-25HP FH

**2900 SERIES**
1693132-20HP
1693220-20HP
1693134-25HP
1693563-25HP FH

## CHARGING CIRCUIT

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1693562-25HP FH

**2900 SERIES**
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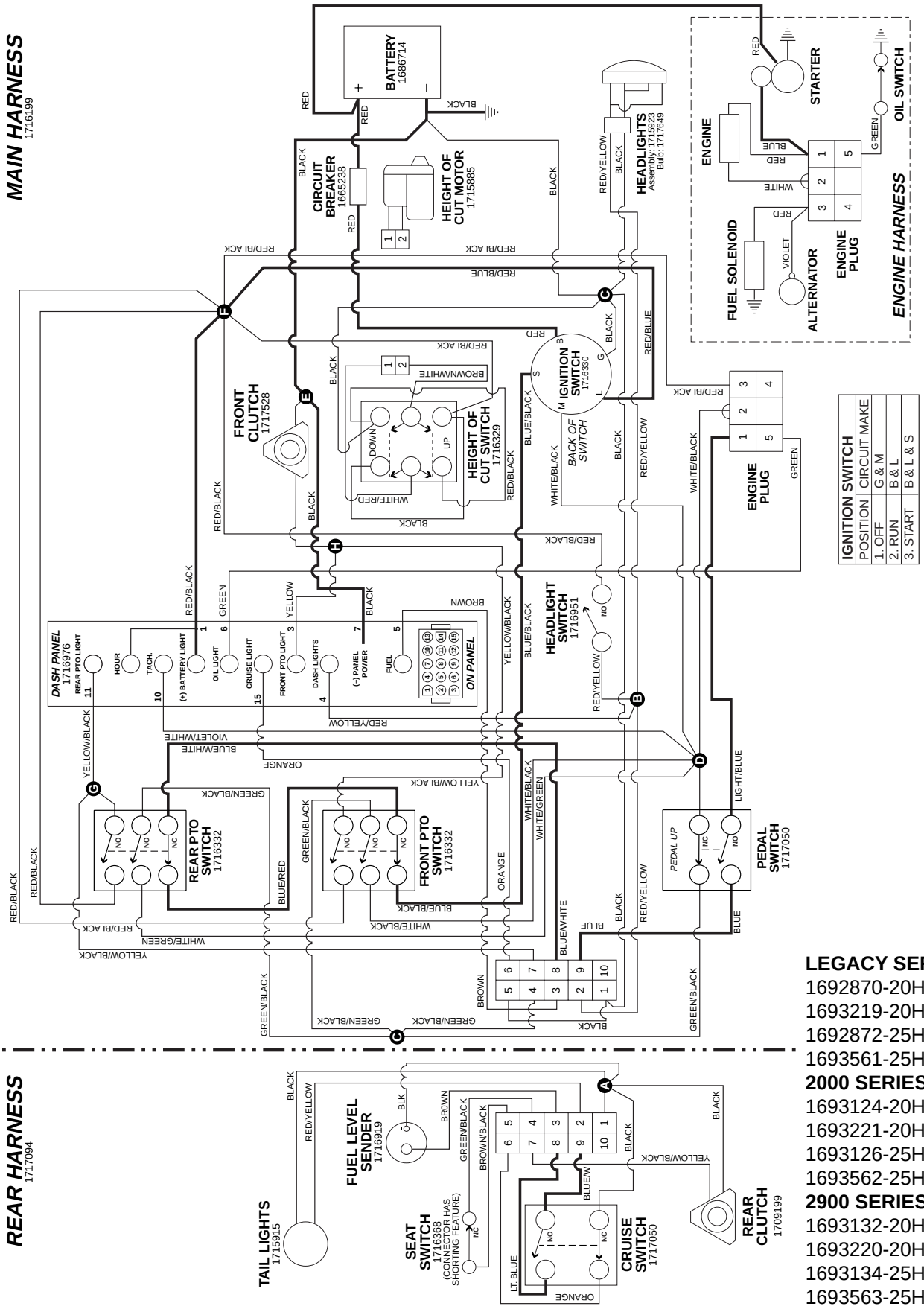
1693220-20HP
1693134-25HP
1693563-25HP FH

## CRANKING CIRCUIT

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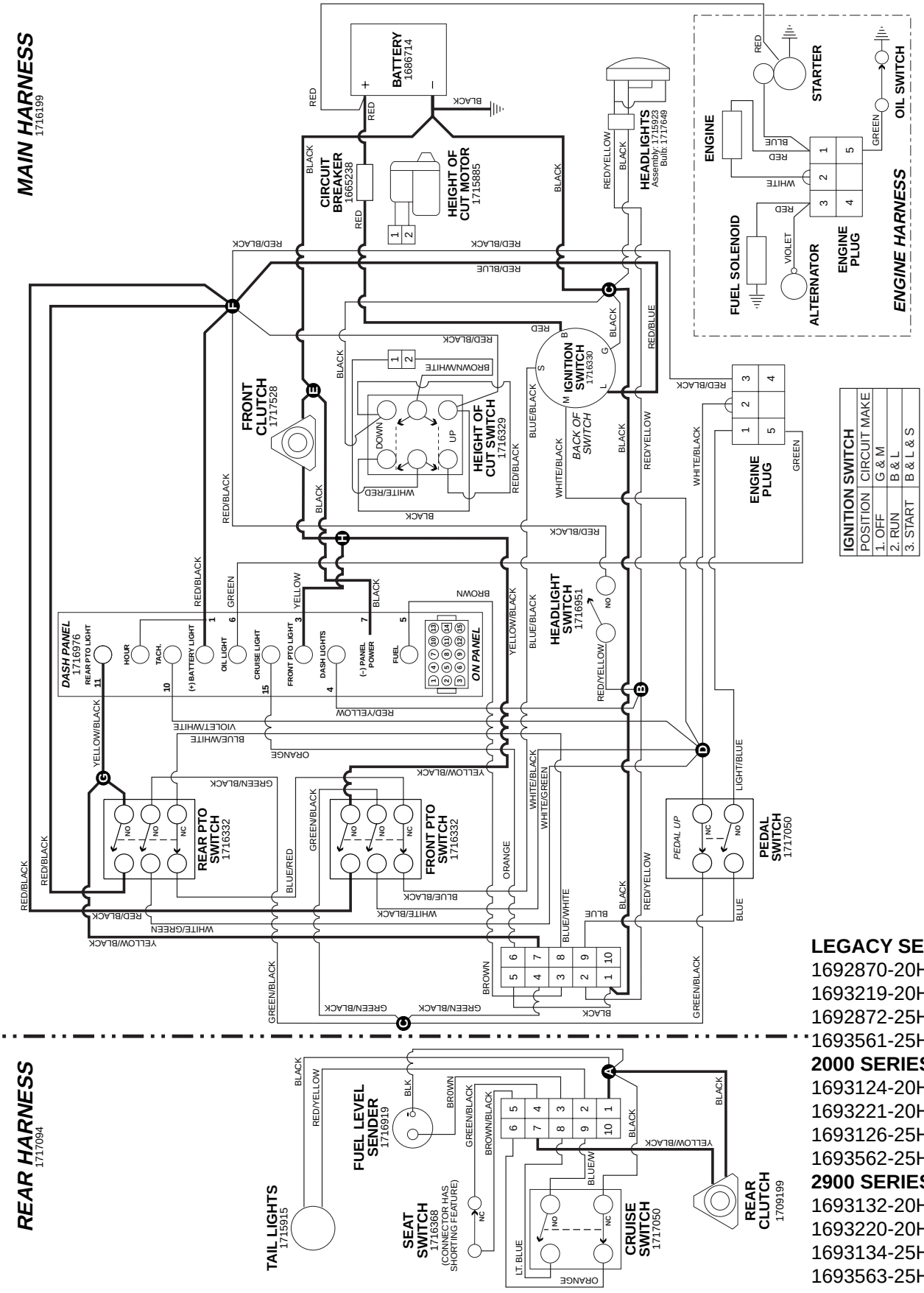
1693132-20HP
1693220-20HP
1693134-25HP
1693563-25HP FH

## PTO CLUTCH CIRCUIT

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**2900 SERIES**
1693132-20HP
1693220-20HP
1693134-25HP
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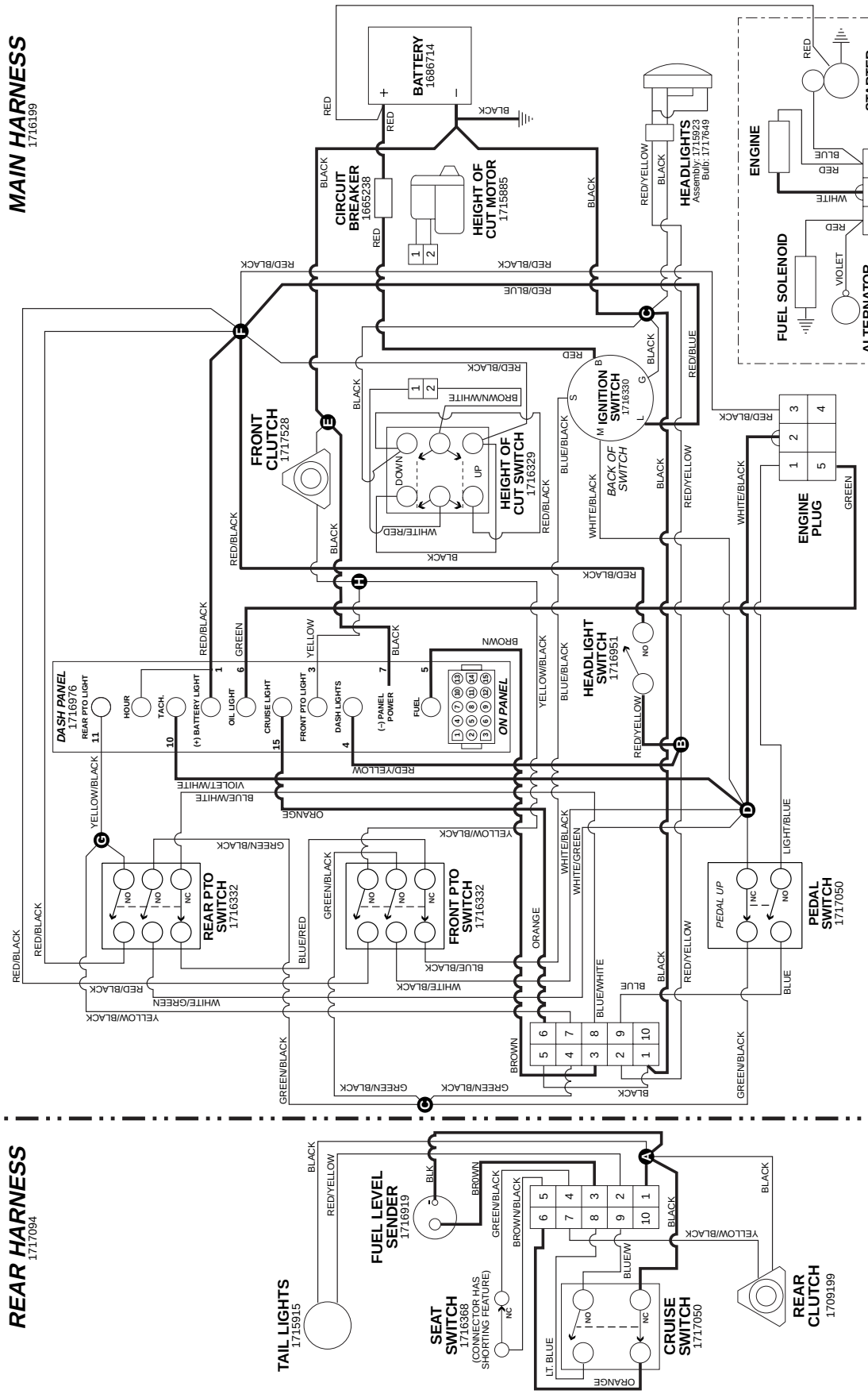
## INSTRUMENT PANEL CIRCUIT

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**2000 SERIES**
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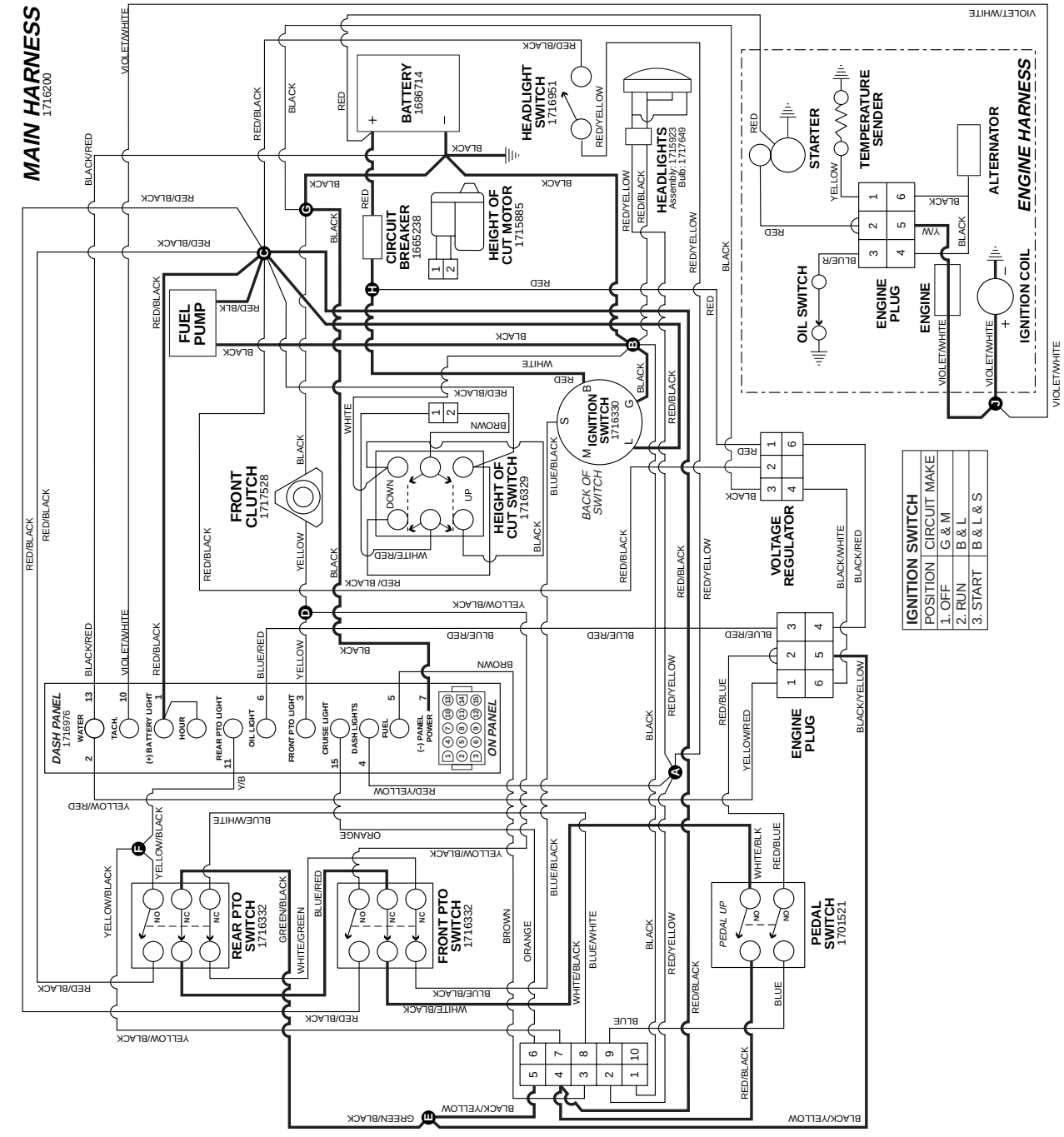
1693221-20HP
1693126-25HP
1693562-25HP FH

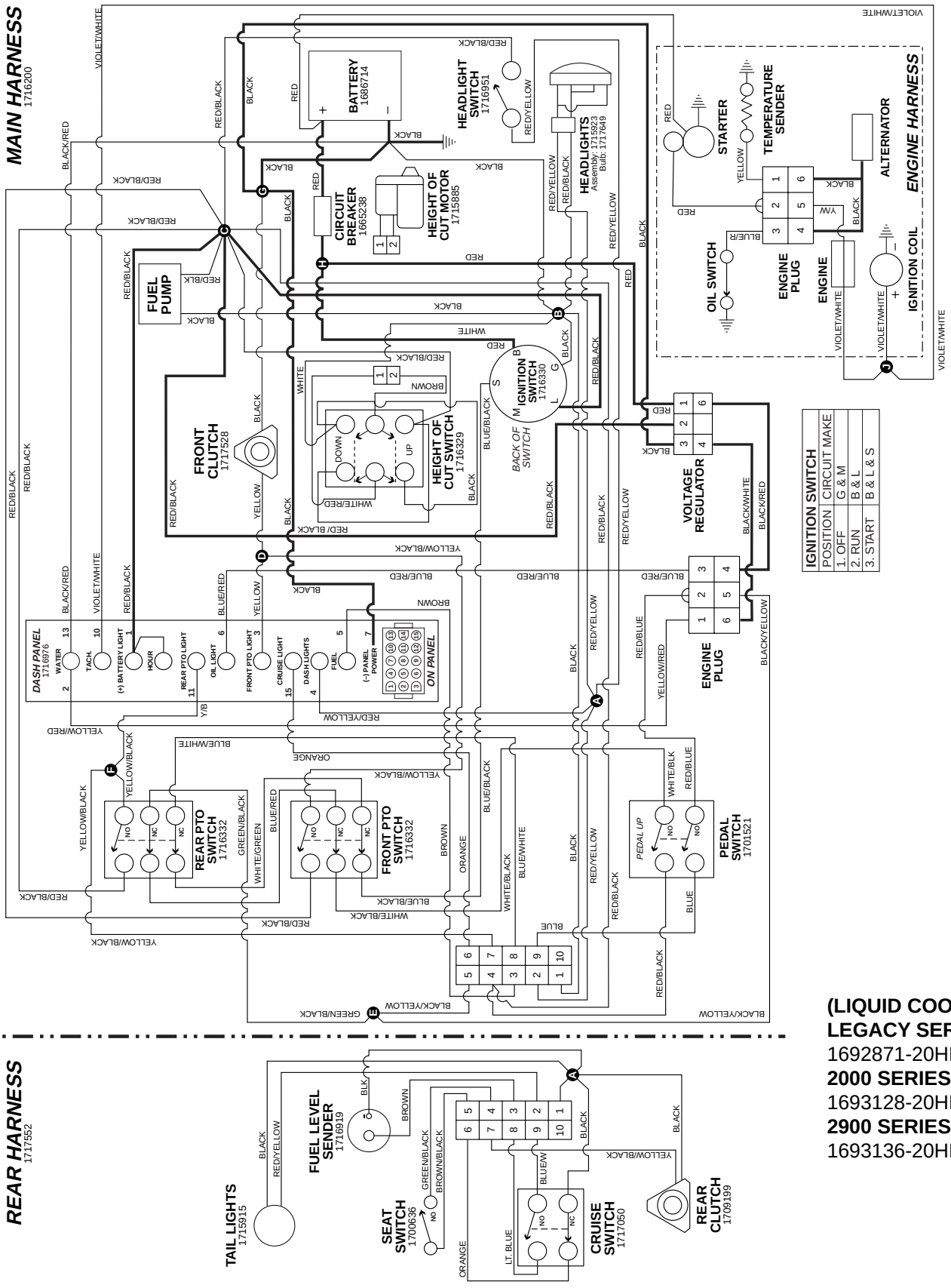
**2900 SERIES**
1693132-20HP
1693220-20HP
1693134-25HP
1693563-25HP FH

## IGNITION CIRCUIT/SHUTDOWN CIRCUIT




**(LIQUID COOLED)**
**LEGACY SERIES**
1692871-20HP
**2000 SERIES**
1693128-20HP
**2900 SERIES**
1693136-20HP

## CHARGING CIRCUIT




**(LIQUID COOLED)**
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1692871-20HP
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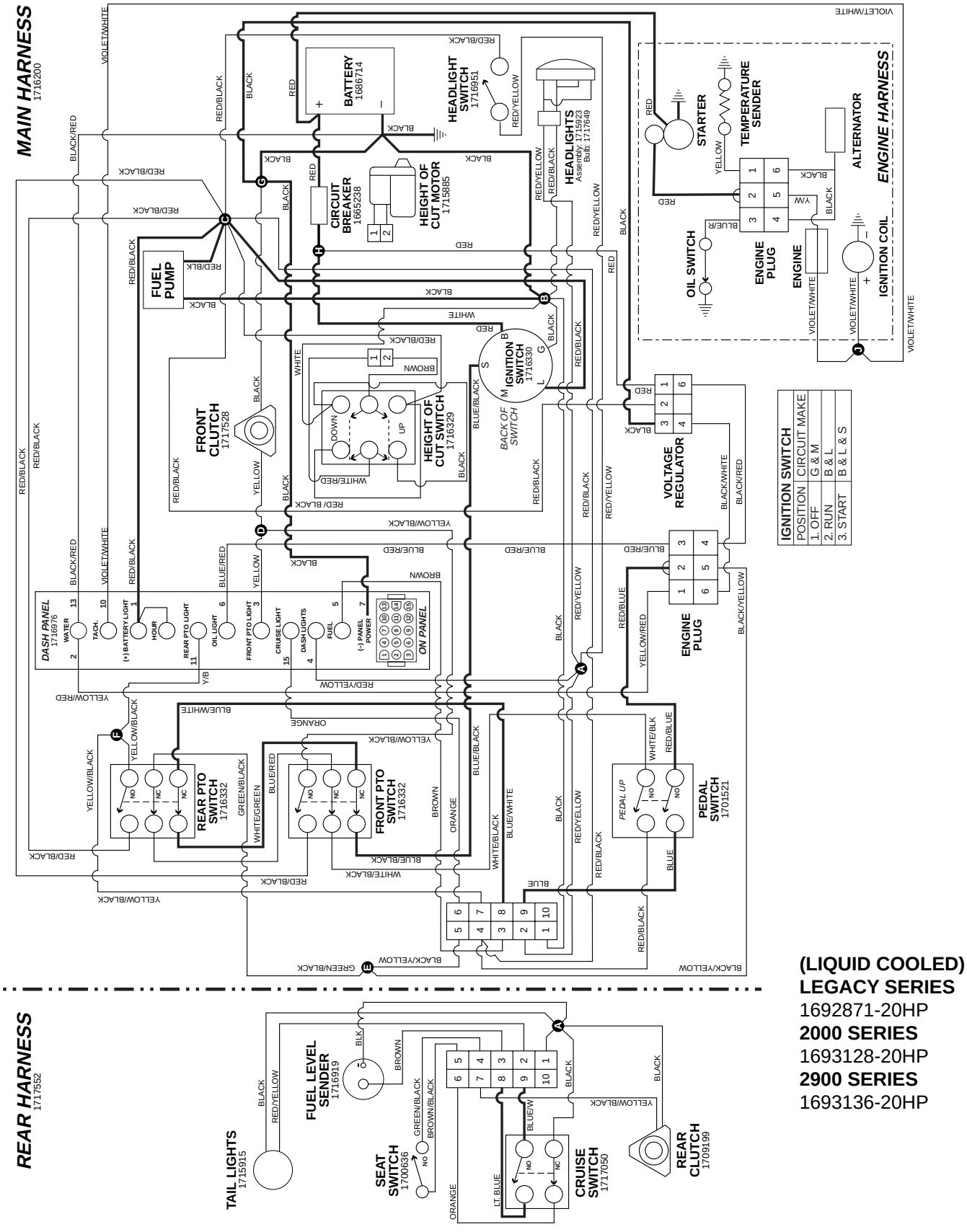
## CRANKING CIRCUIT




**(LIQUID COOLED)**
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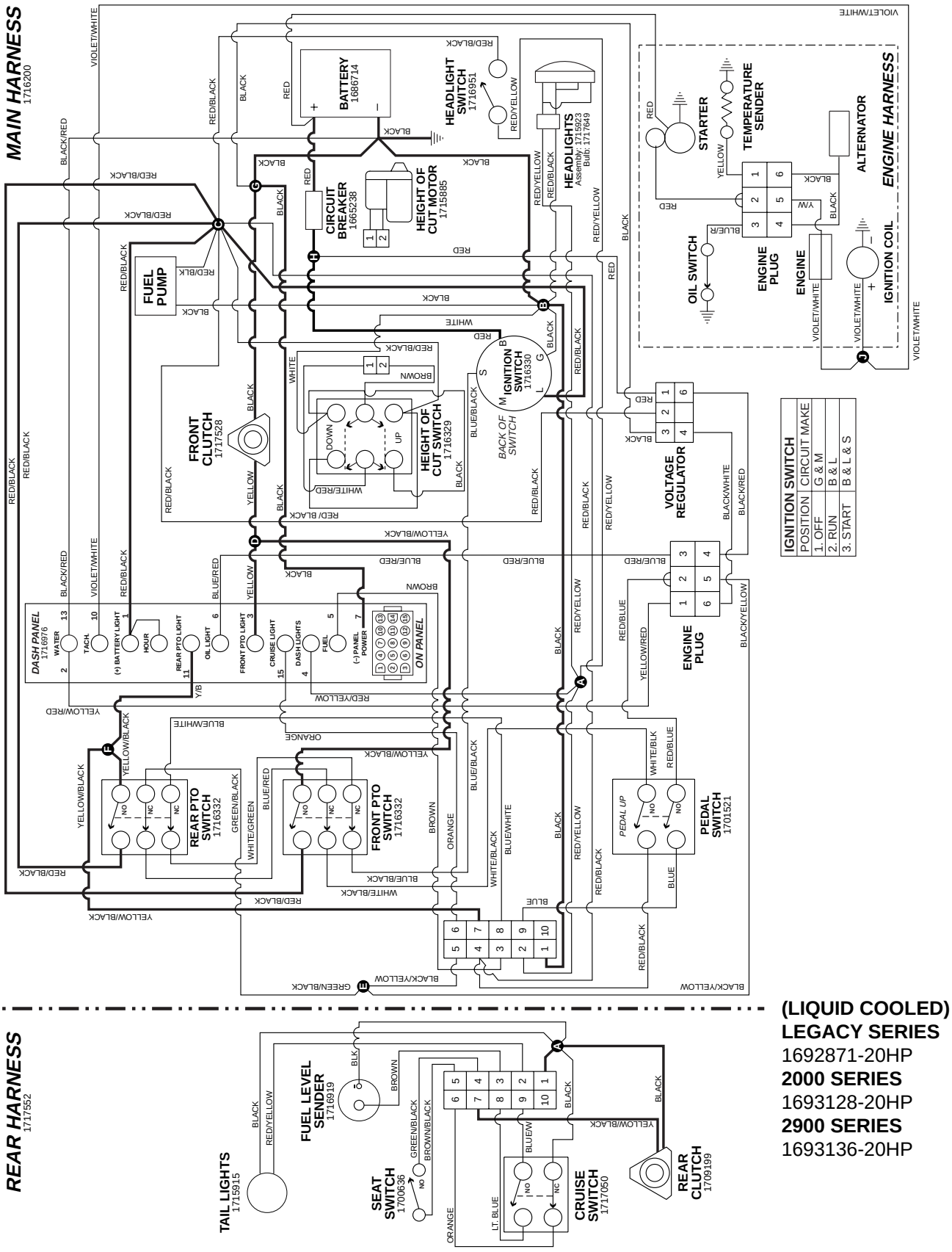
**2900 SERIES**
1693136-20HP

## PTO CLUTCH CIRCUIT

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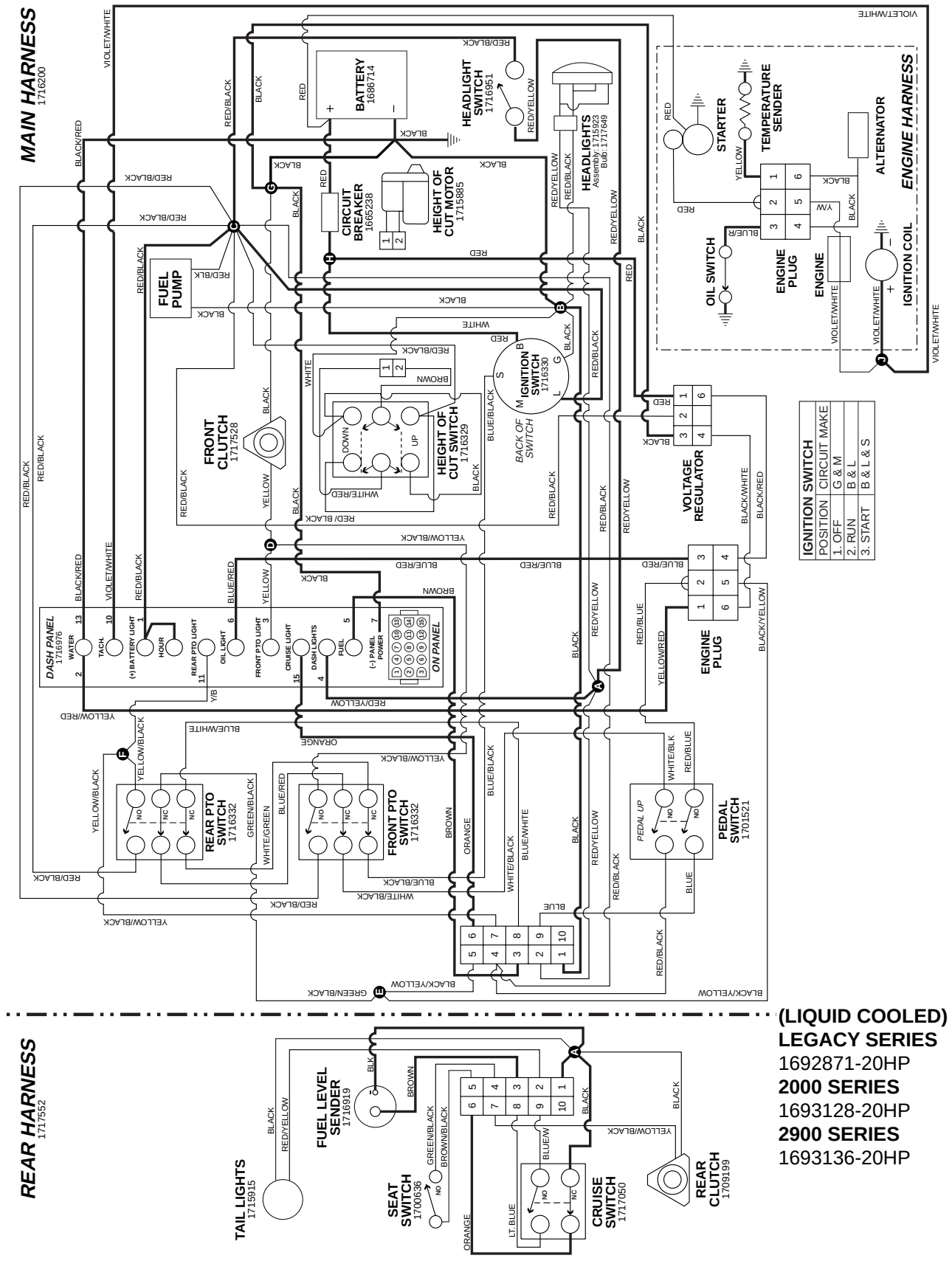
## INSTRUMENT PANEL CIRCUIT

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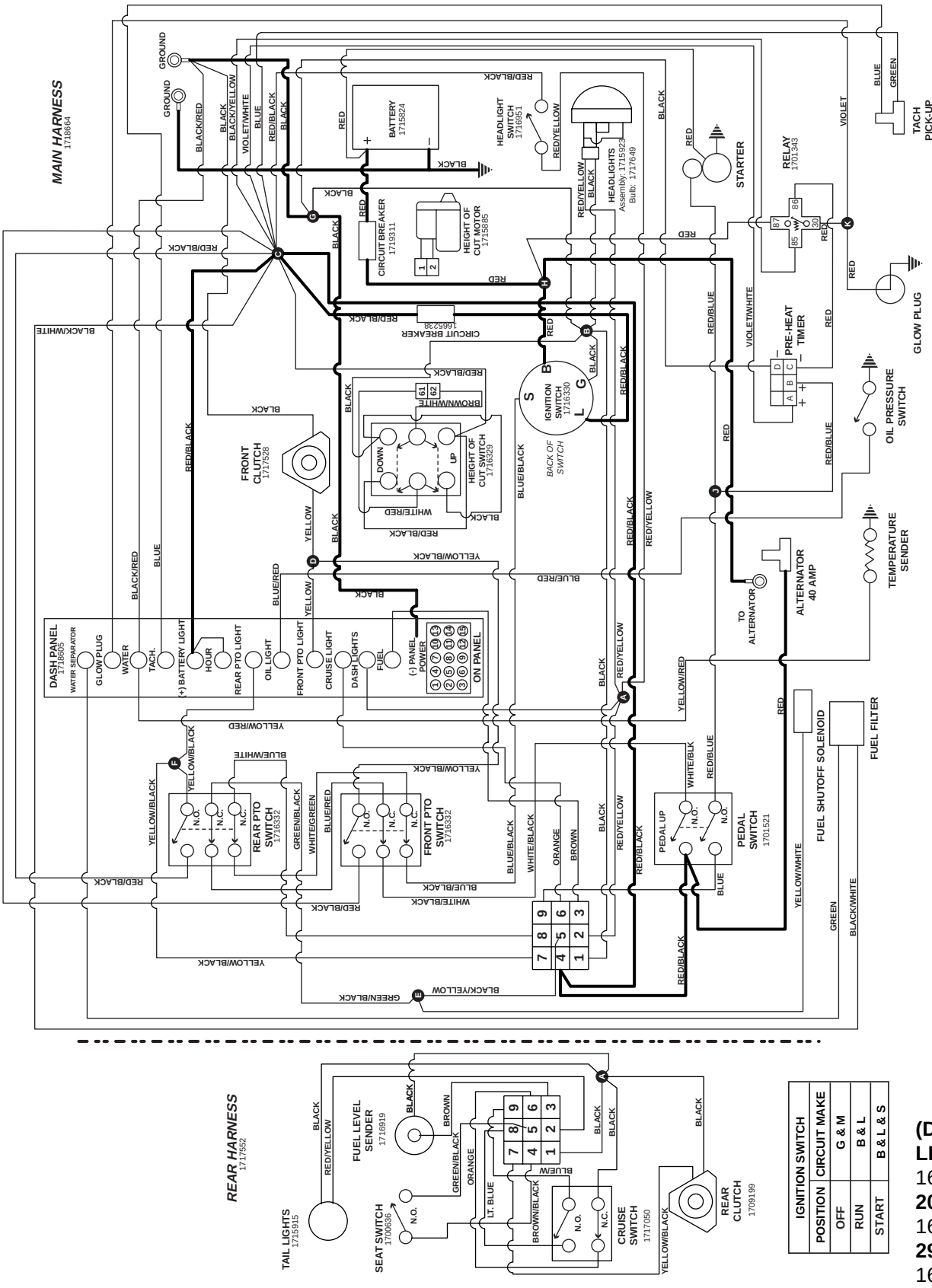
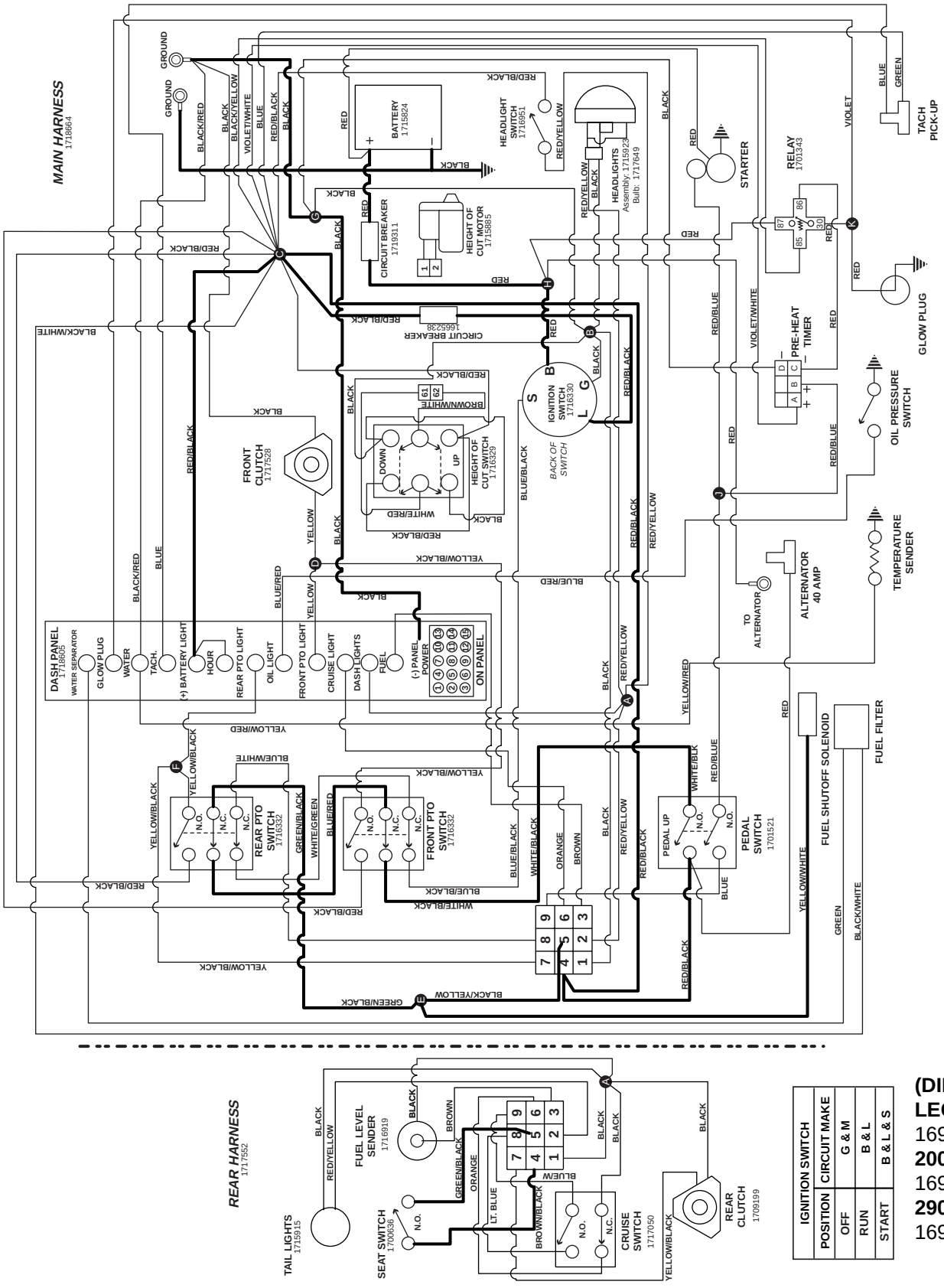
**2900 SERIES**
1693136-20HP

## CHARGING CIRCUIT




**(DIESEL)**
**LEGACY SERIES**
1693112
**2000 SERIES**
1693130
**2900 SERIES**
1693138

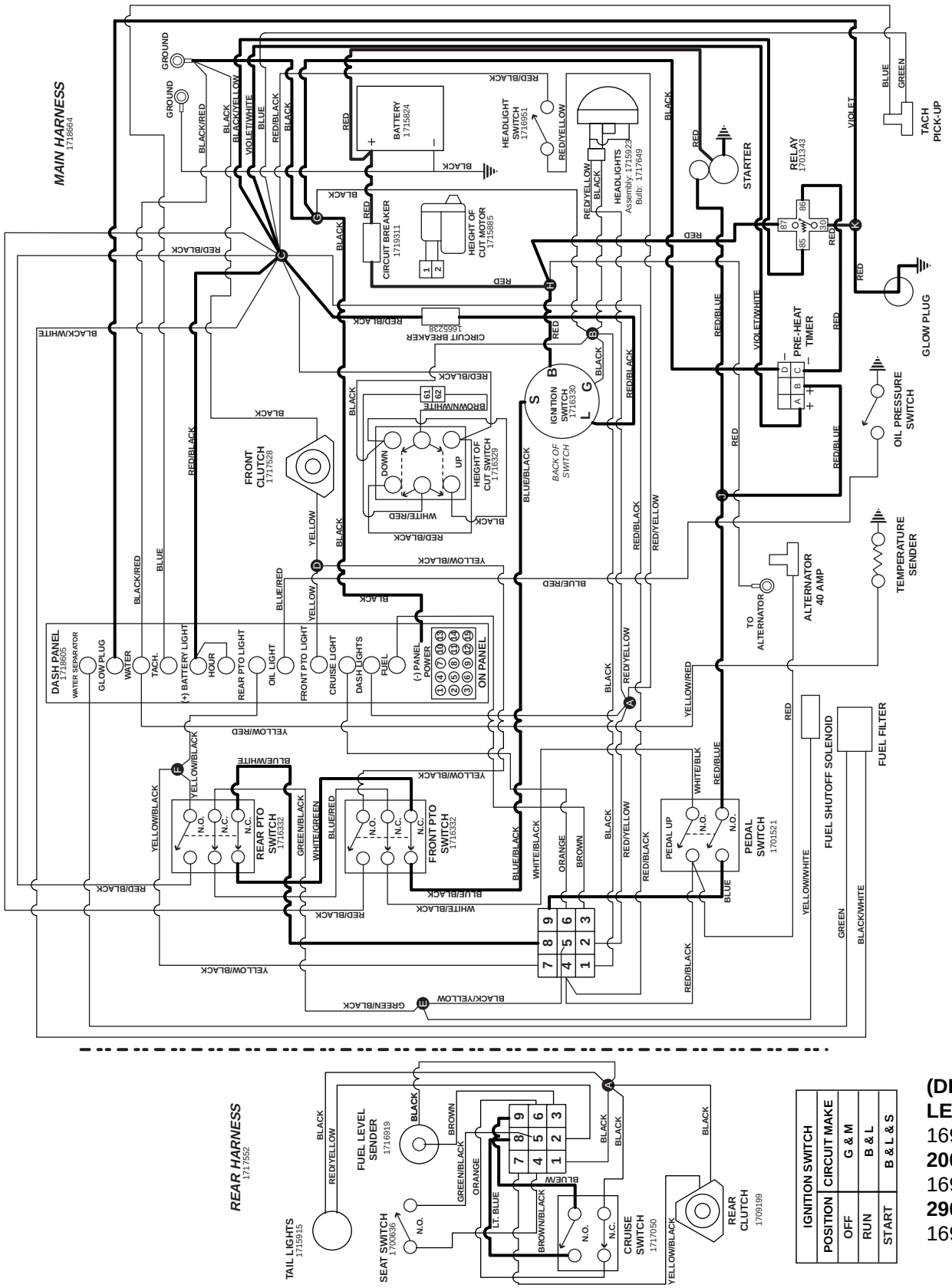
## IGNITION/SHUTDOWN CIRCUIT




| IGNITION SWITCH | CIRCUIT MAKE |
|---|---|
| POSITION | |
| OFF | G & M |
| RUN | B & L |
| START | B & L & S |

**(DIESEL)**
**LEGACY SERIES**
1693112
**2000 SERIES**
1693130
**2900 SERIES**
1693138

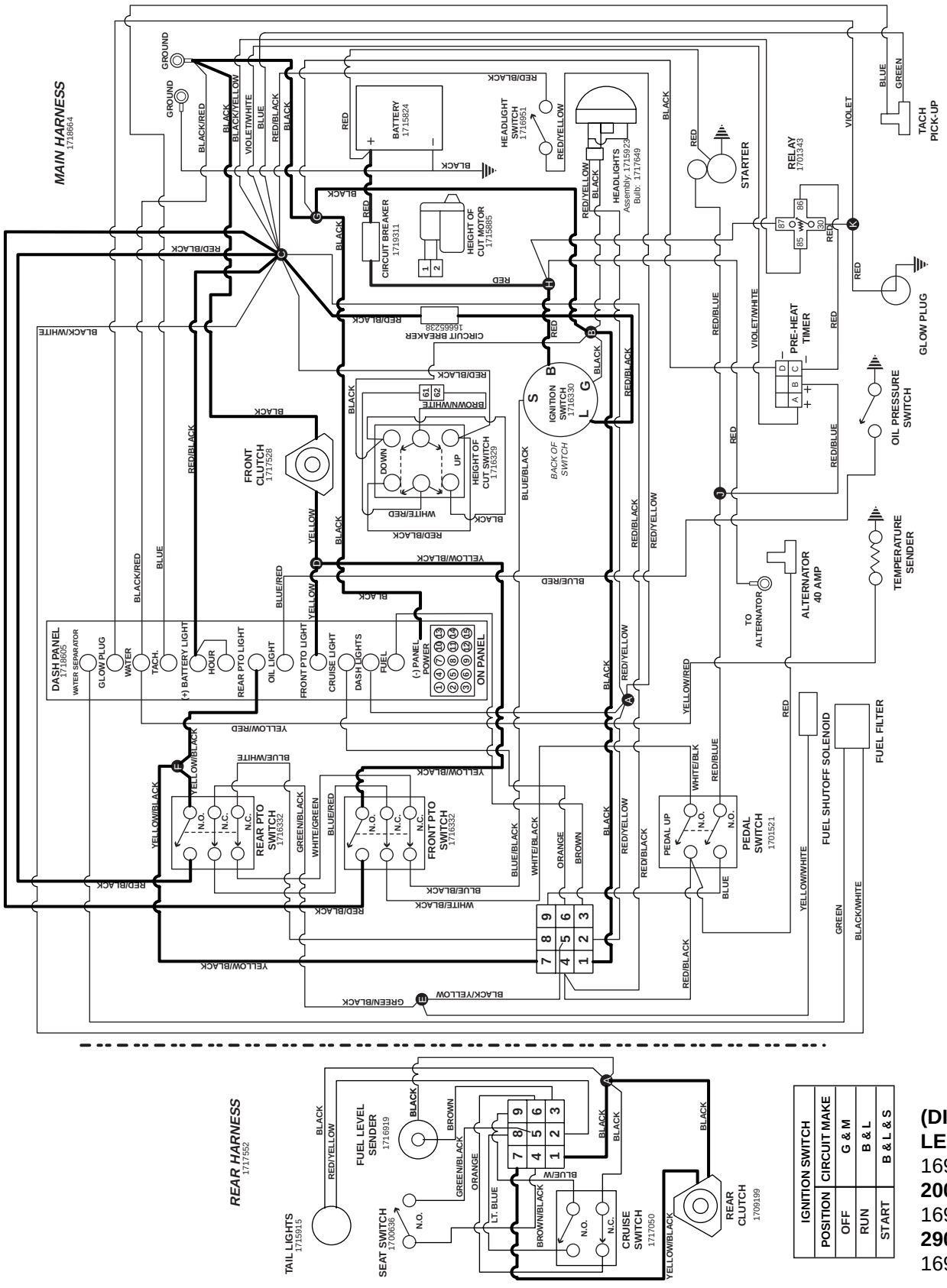
## CRANKING CIRCUIT




| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| OFF | G & M |
| RUN | B & L |
| START | B & L & S |

**(DIESEL)**
**LEGACY SERIES**
1693112
**2000 SERIES**
1693130
**2900 SERIES**
1693138

## CLUTCH CIRCUIT




| IGNITION SWITCH | CIRCUIT MAKE |
|---|---|
| POSITION | |
| OFF | G & M |
| RUN | B & L |
| START | B & L & S |

**(DIESEL)**
**LEGACY SERIES**
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**2900 SERIES**
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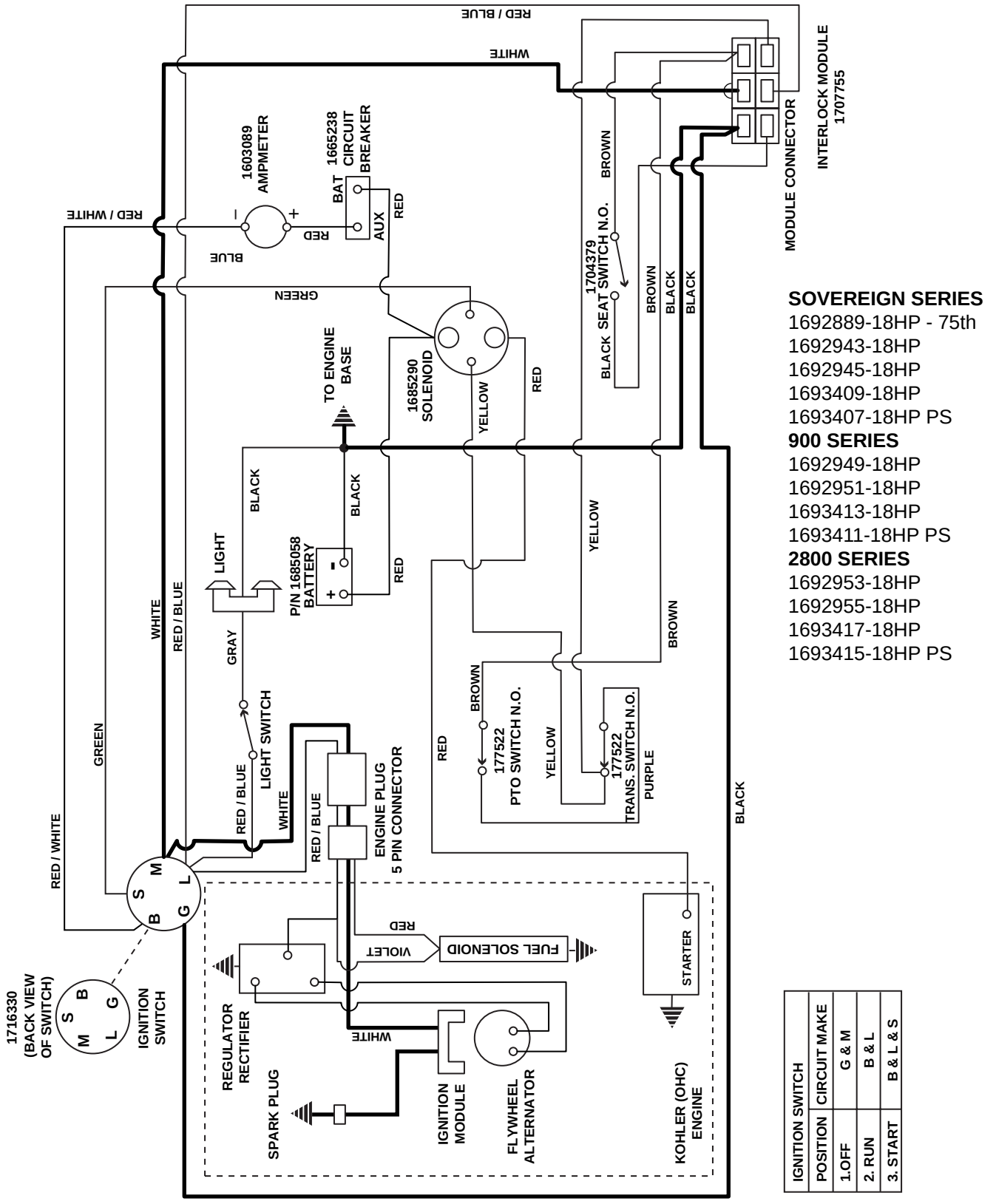
## IGNITION CIRCUIT/SHUTDOWN CIRCUIT



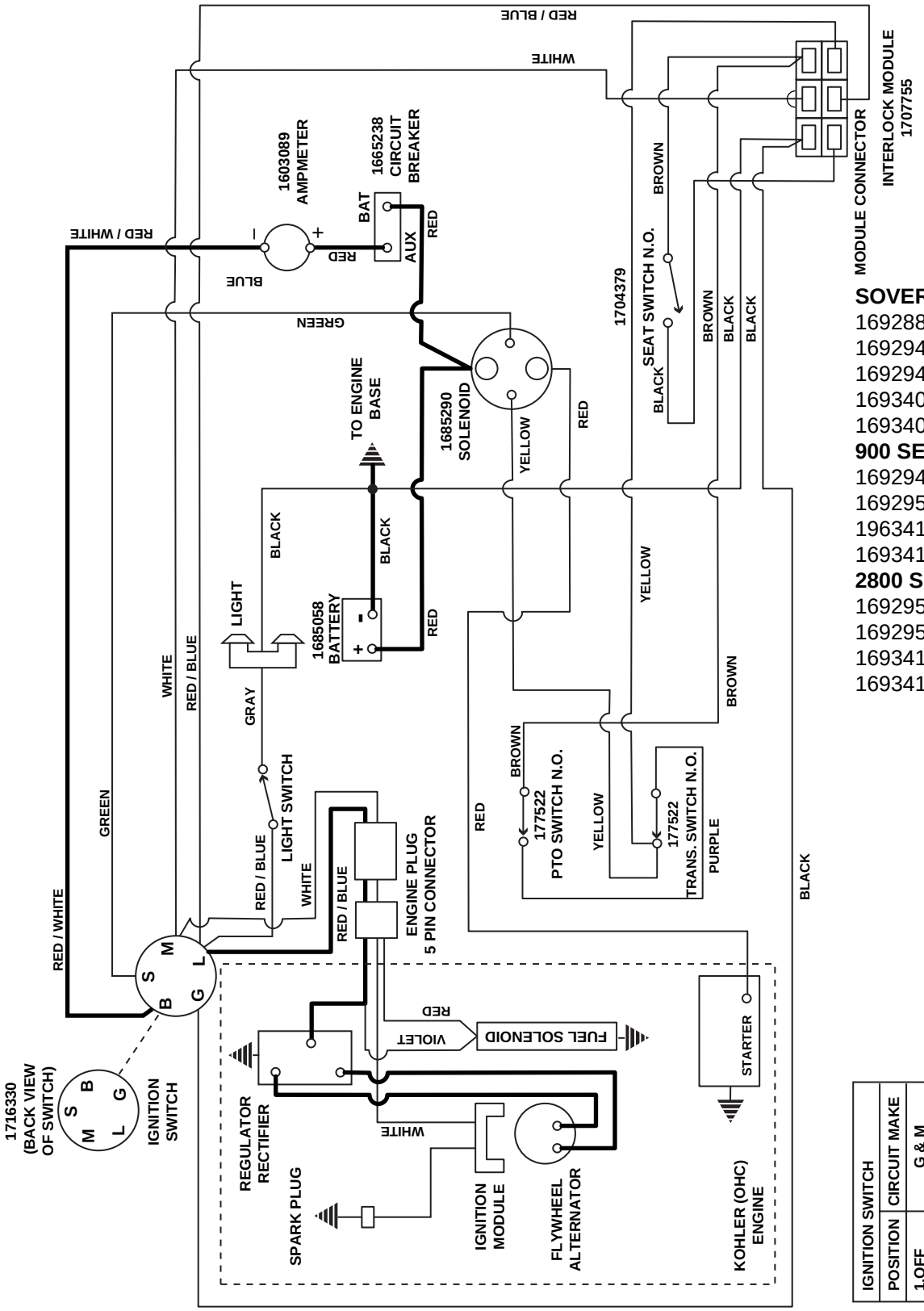

**SOVEREIGN SERIES**
1692889-18HP - 75th
1692943-18HP
1692945-18HP
1693409-18HP
1693407-18HP PS

**900 SERIES**
1692949-18HP
1692951-18HP
1693413-18HP
1693411-18HP PS

**2800 SERIES**
1692953-18HP
1692955-18HP
1693417-18HP
1693415-18HP PS

| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| 1.OFF | G & M |
| 2. RUN | B & L |
| 3. START | B & L & S |

## CHARGING CIRCUIT

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**900 SERIES**
1692949-18HP
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**2800 SERIES**
1692953-18HP
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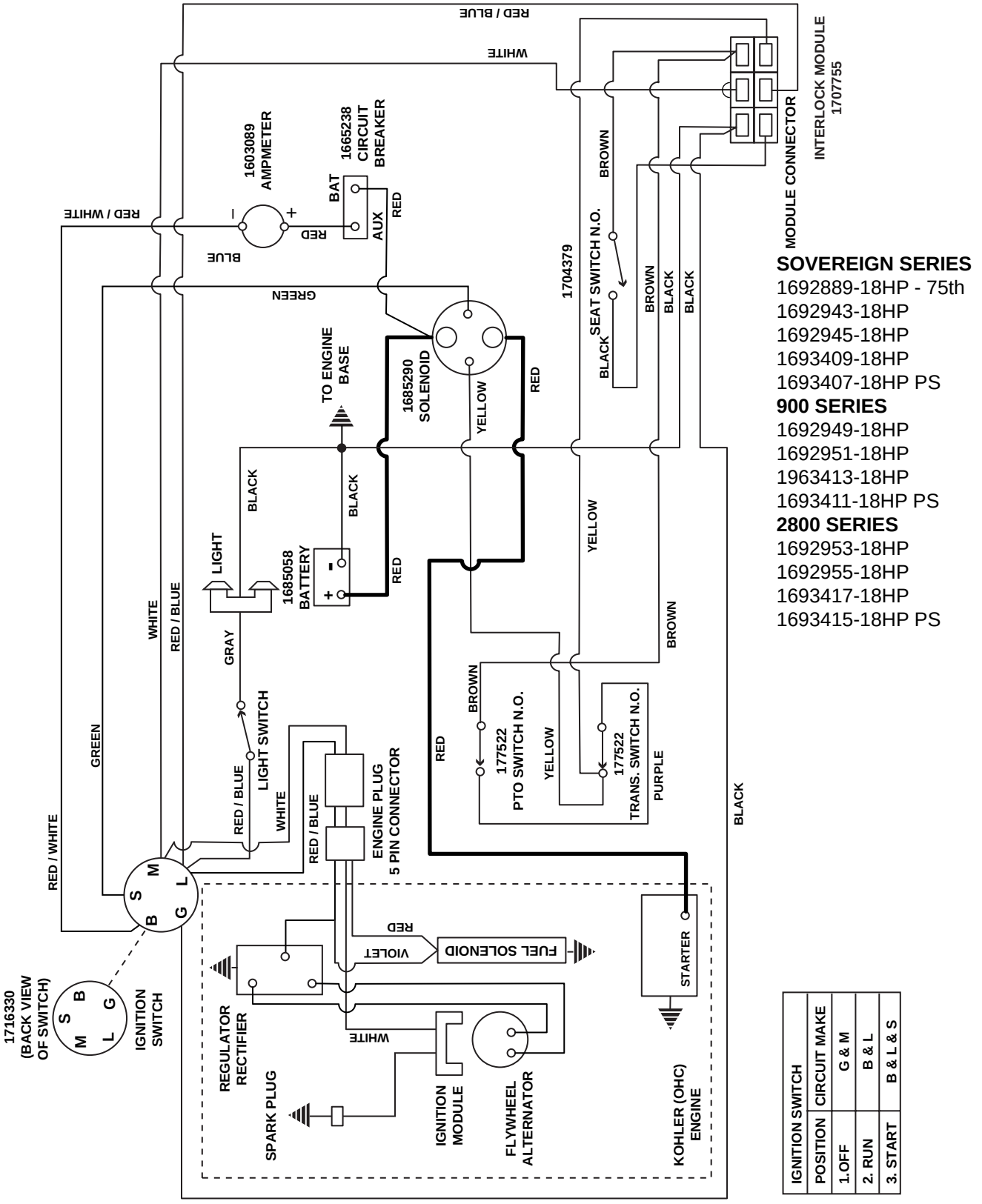
1693415-18HP PS

| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| 1.OFF | G & M |
| 2. RUN | B & L |
| 3. START | B & L & S |

## CRANKING CIRCUIT

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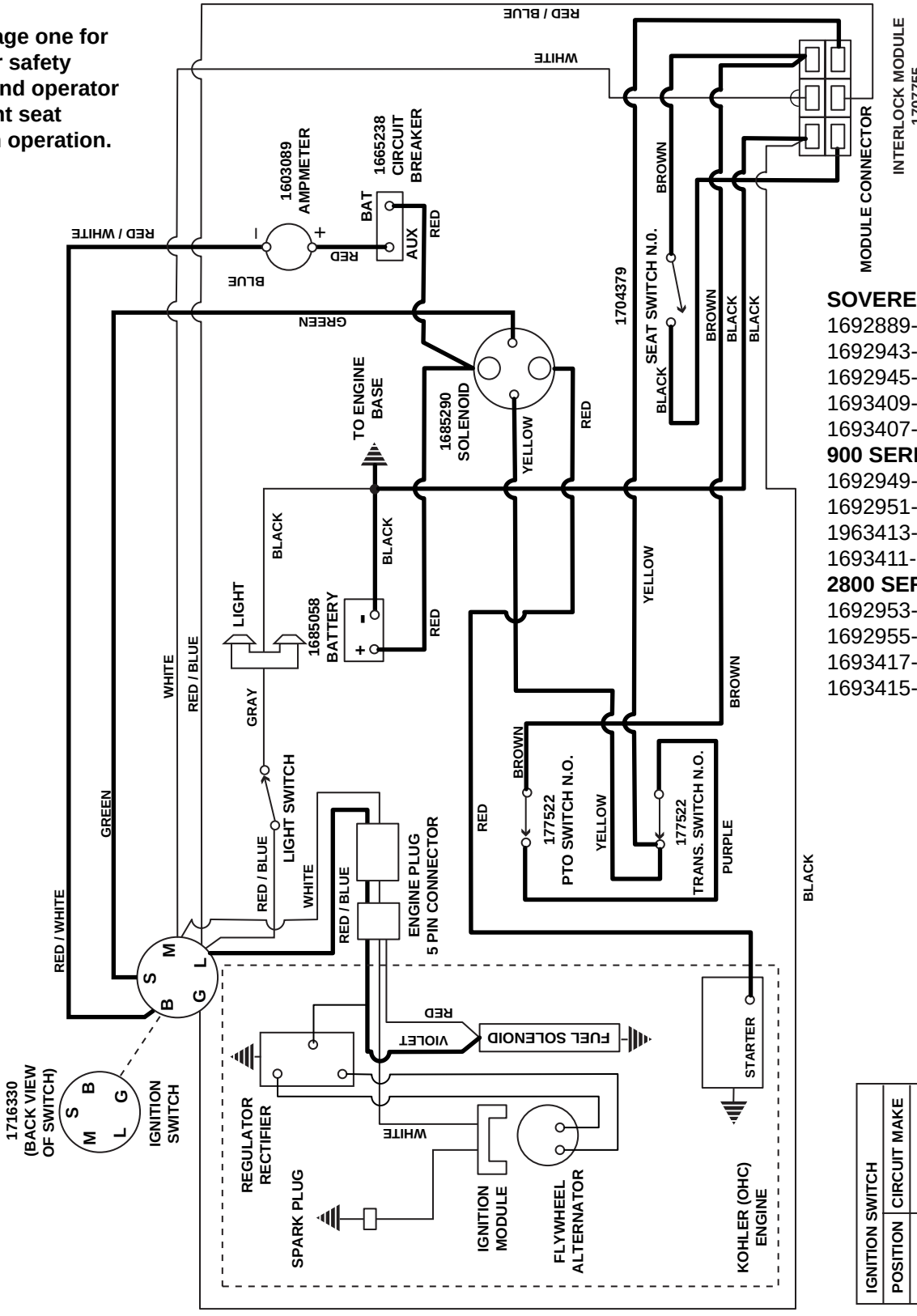
| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| 1.OFF | G & M |
| 2. RUN | B & L |
| 3. START | B & L & S |

## SAFETY START & OPERATOR PRESENT CIRCUIT

**See page one for proper safety start and operator present seat switch operation.**




**SOVEREIGN SERIES**
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**900 SERIES**
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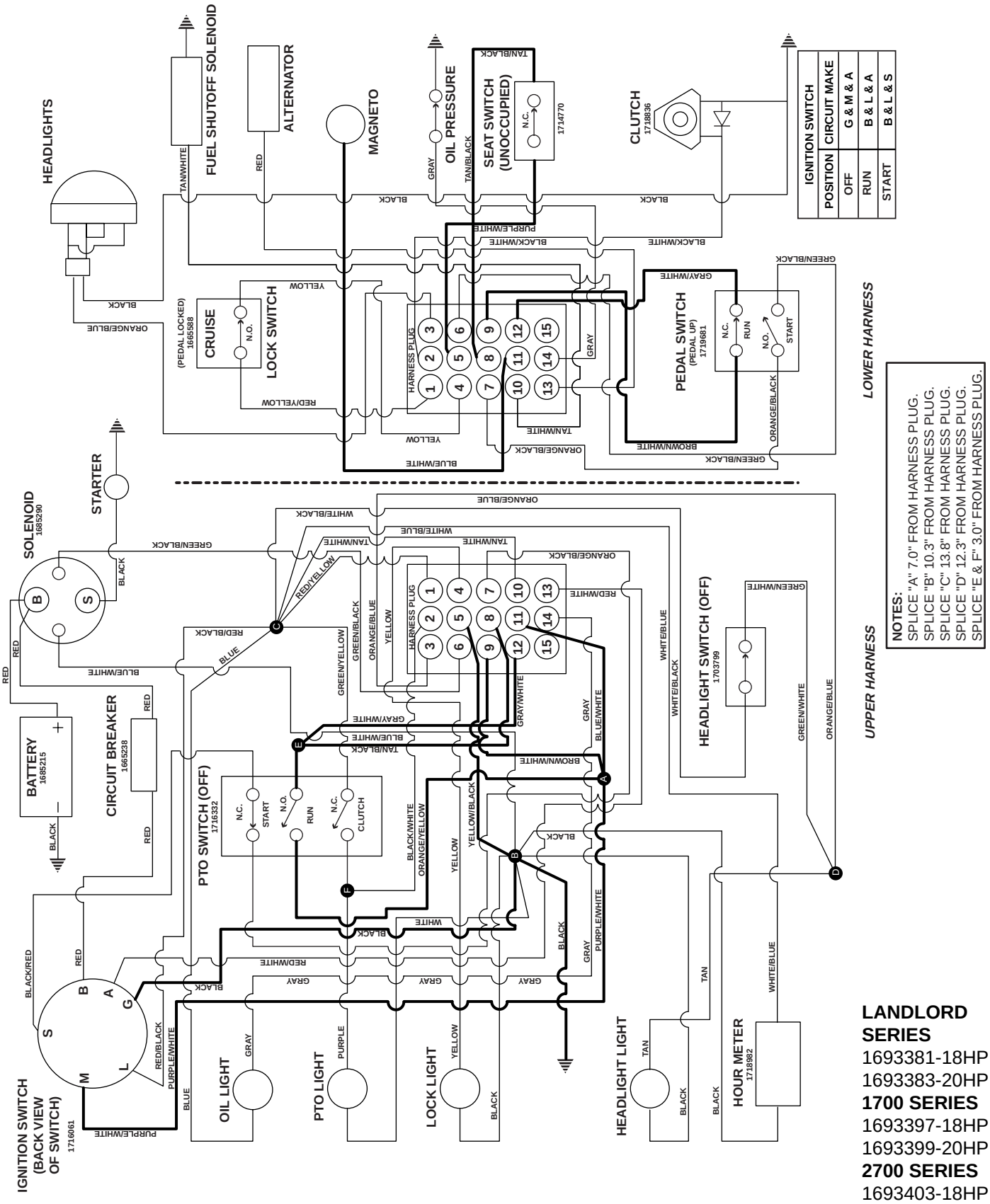
1693411-18HP PS

**2800 SERIES**
1692953-18HP
1692955-18HP
1693417-18HP
1693415-18HP PS

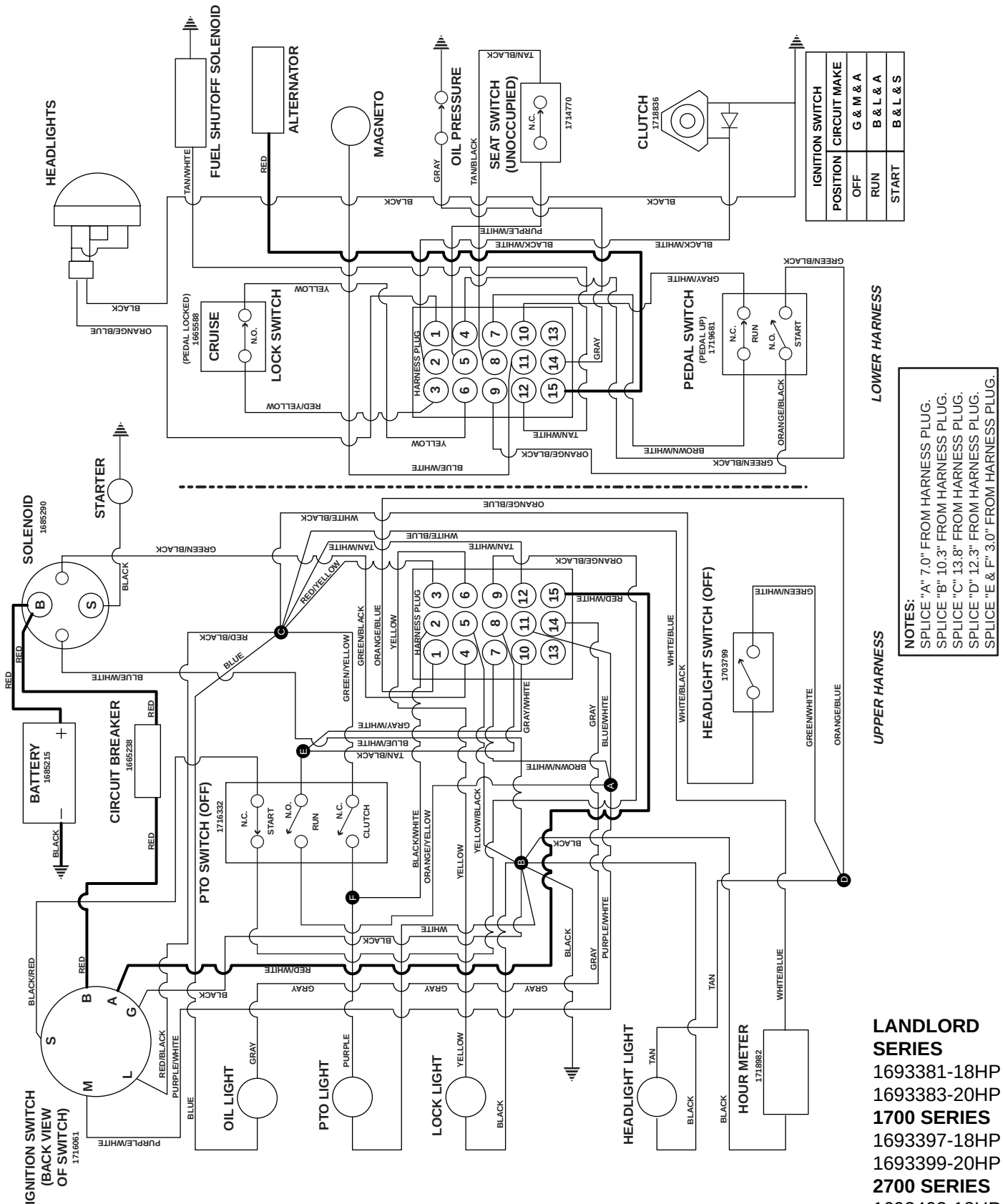
| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| 1.OFF | G & M |
| 2. RUN | B & L |
| 3. START | B & L & S |

## IGNITION CIRCUIT/SHUTDOWN CIRCUIT




**LANDLORD SERIES**
1693381-18HP
1693383-20HP
**1700 SERIES**
1693397-18HP
1693399-20HP
**2700 SERIES**
1693403-18HP
1693405-18HP

## CHARGING CIRCUIT

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1693397-18HP
1693399-20HP
**2700 SERIES**
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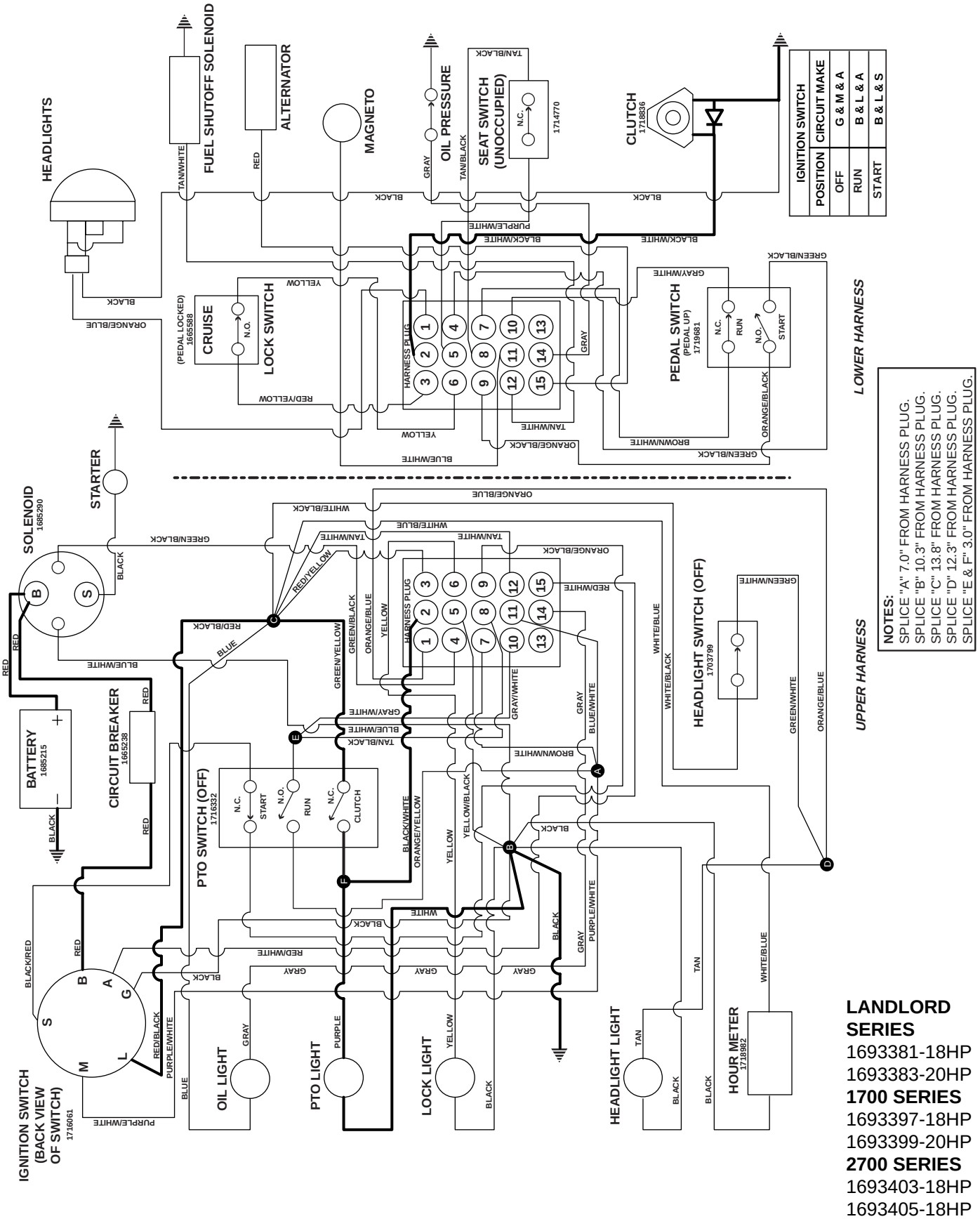
## PTO CLUTCH CIRCUIT

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**1700 SERIES**
1693397-18HP
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**2700 SERIES**
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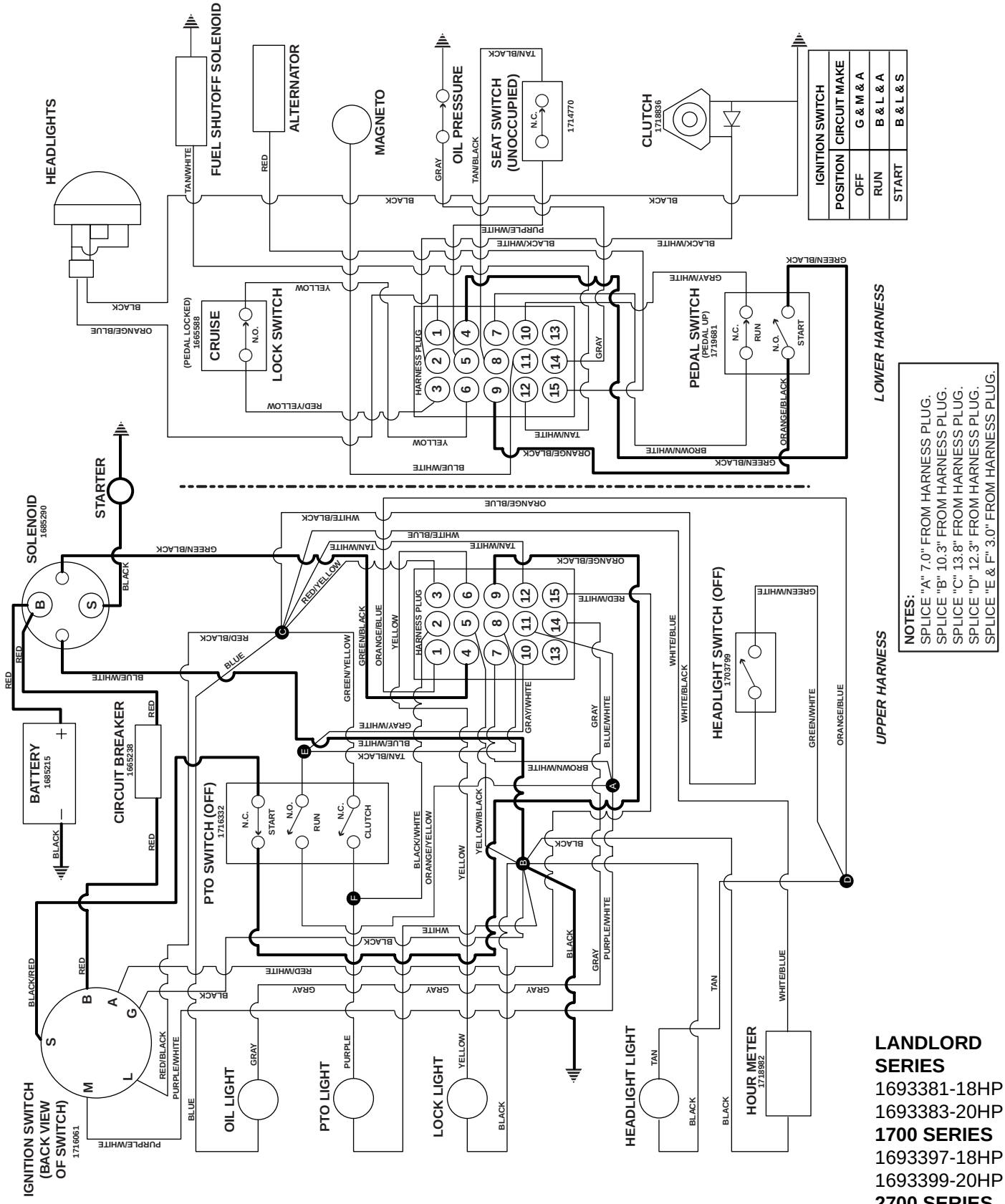
## CRANKING CIRCUIT

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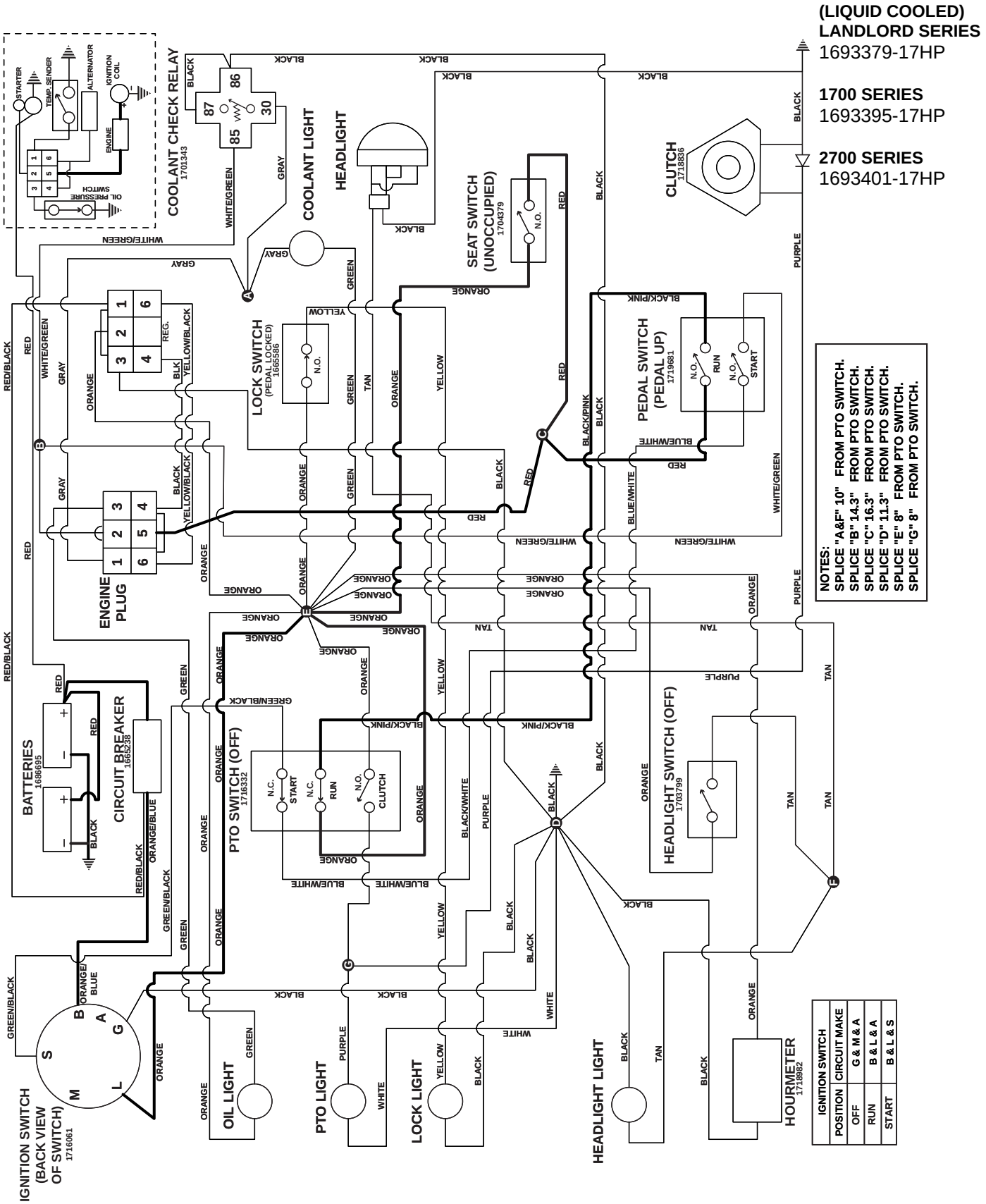
1693405-18HP

**See page one for proper safety start and operator present seat switch operation.**

## IGNITION/SHUTDOWN CIRCUIT

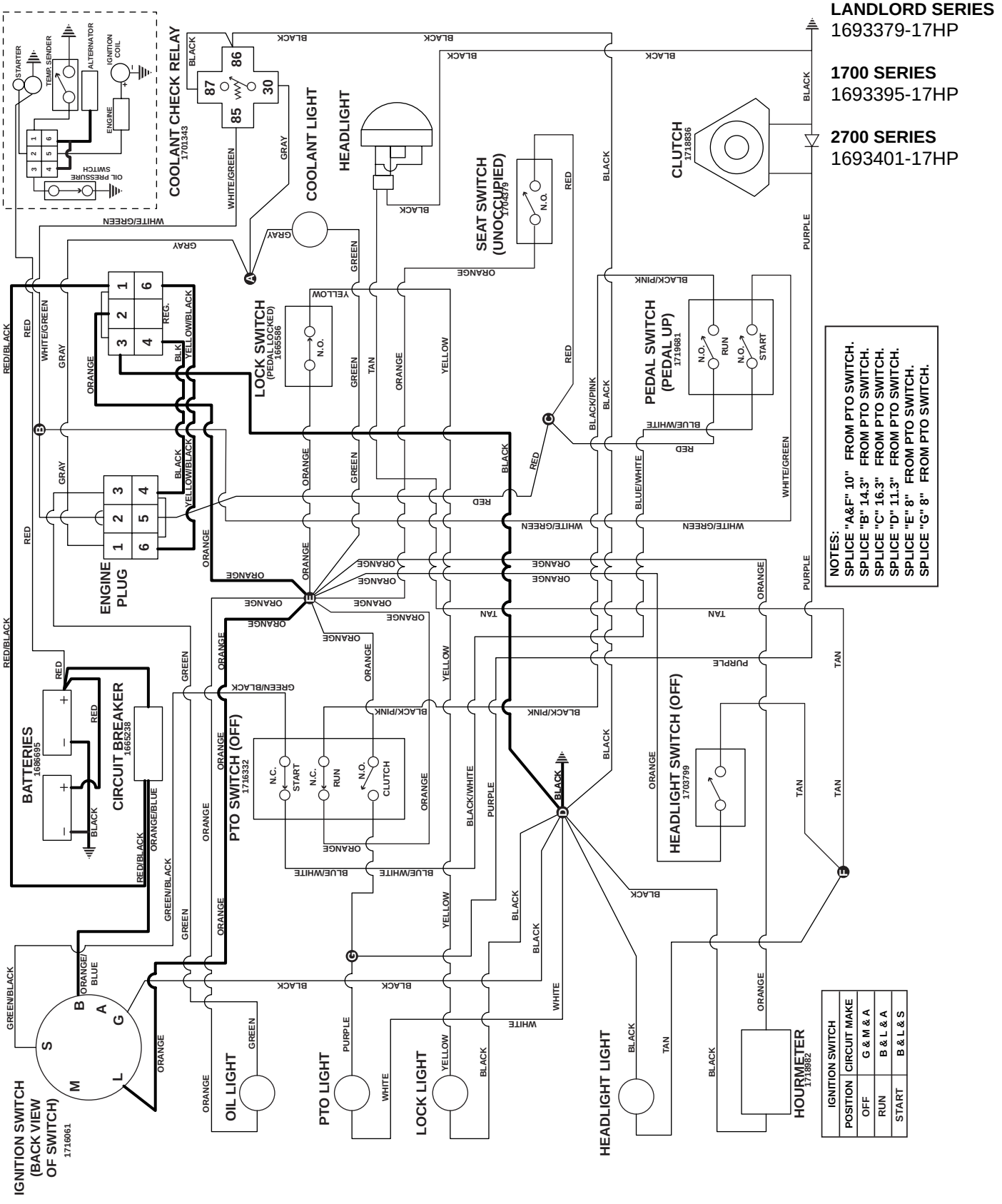


## CHARGING CIRCUIT

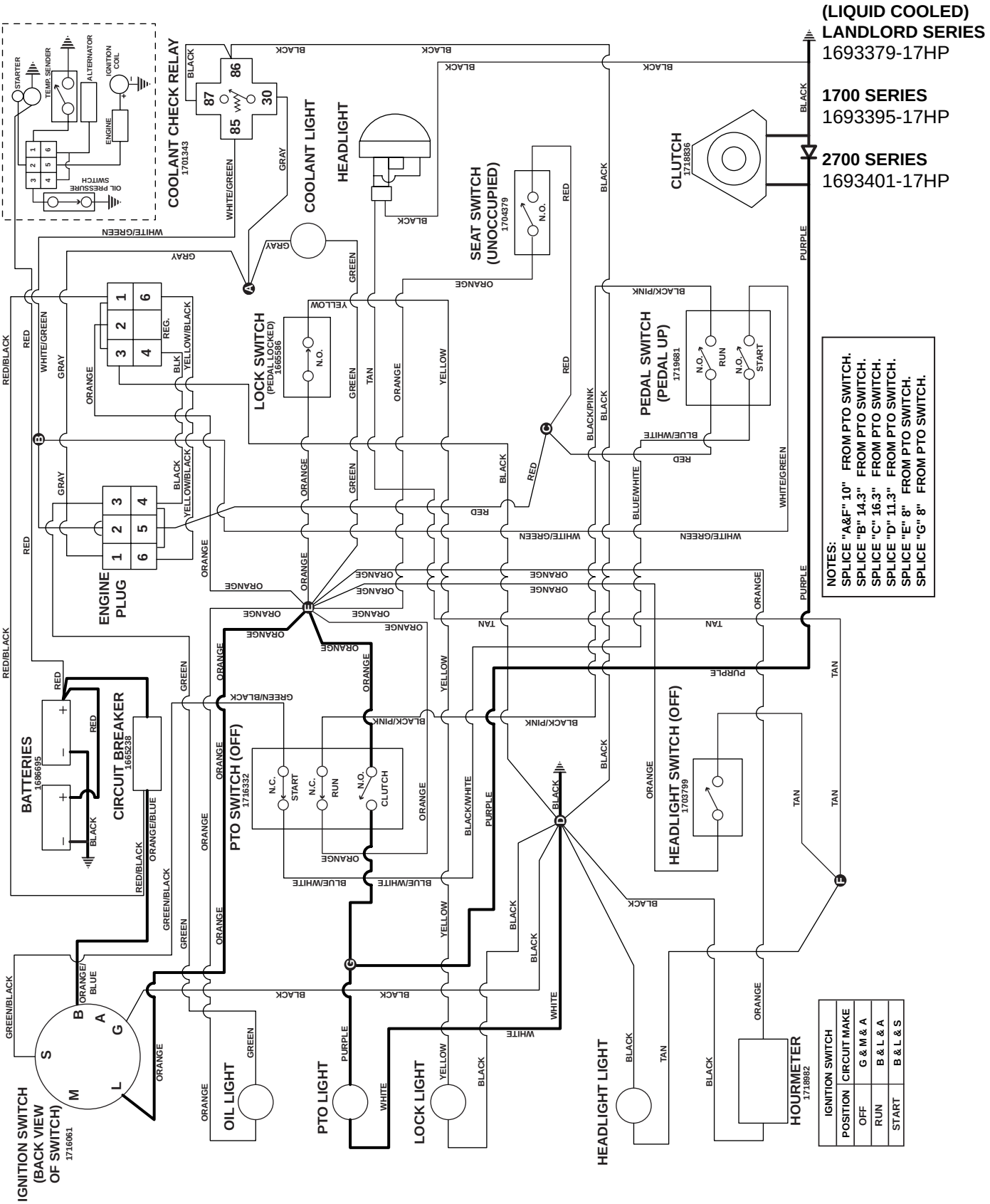
**(LIQUID COOLED)**
**LANDLORD SERIES**
1693379-17HP

**1700 SERIES**
1693395-17HP

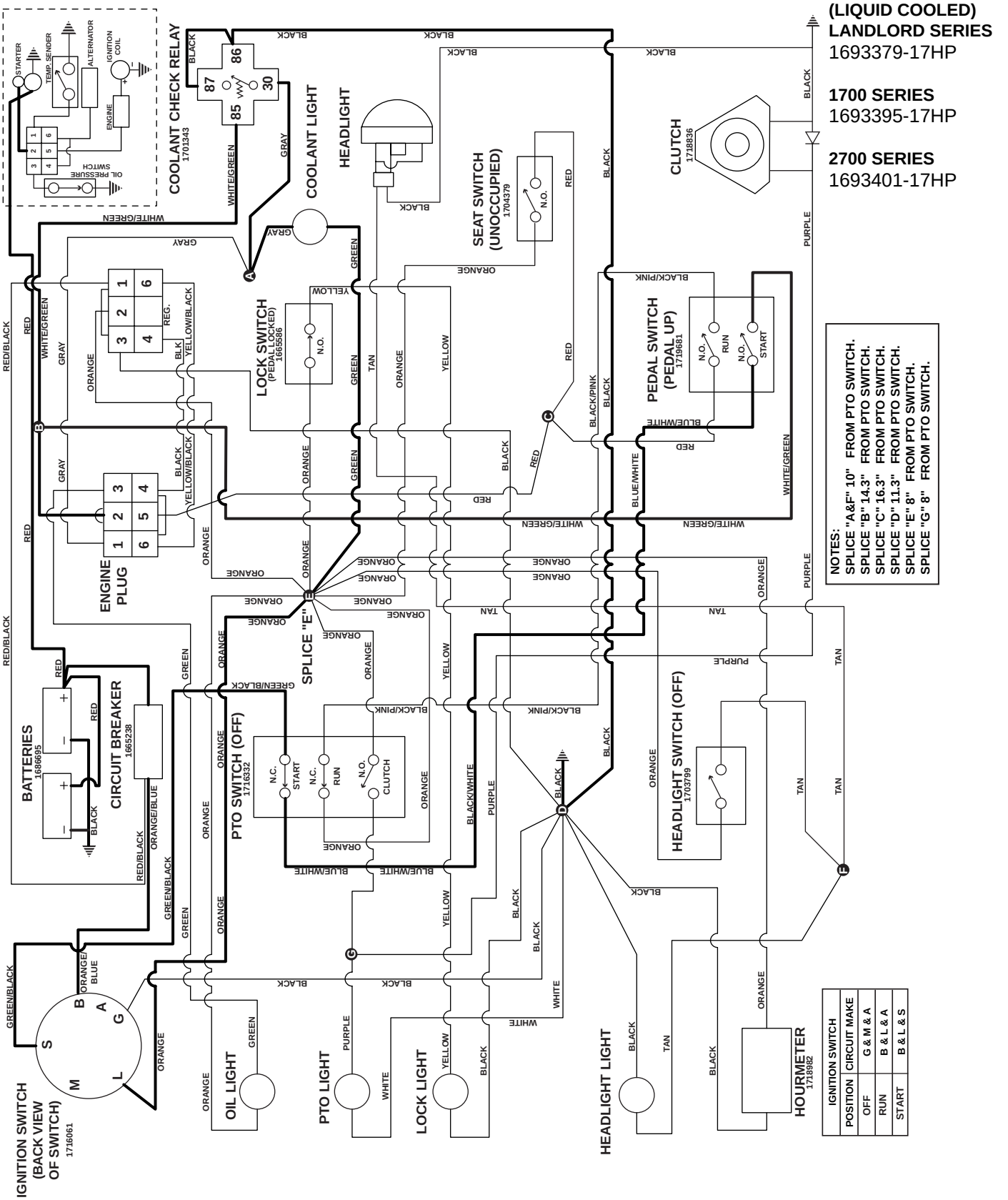
**2700 SERIES**
1693401-17HP



## PTO CLUTCH CIRCUIT

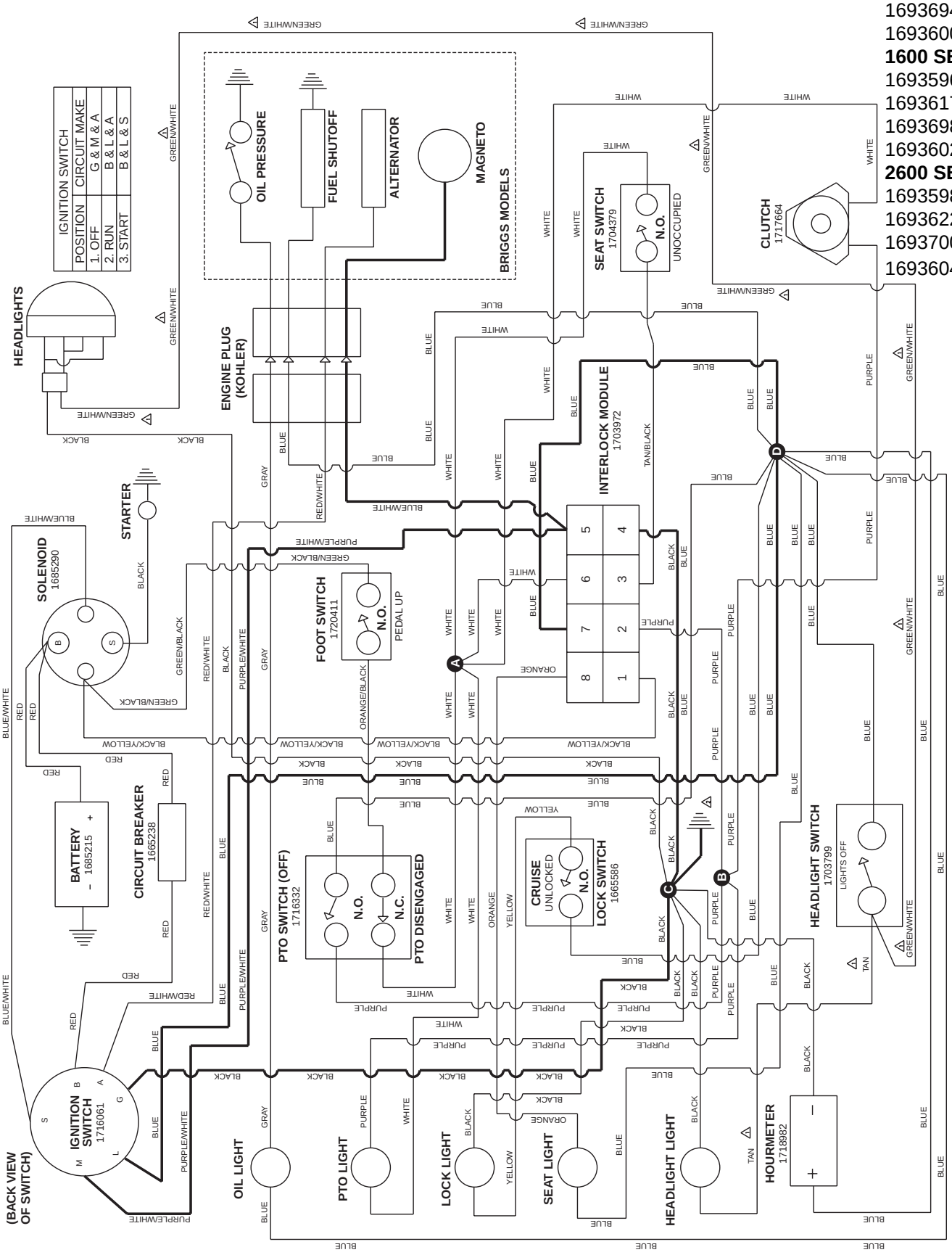


## CRANKING CIRCUIT



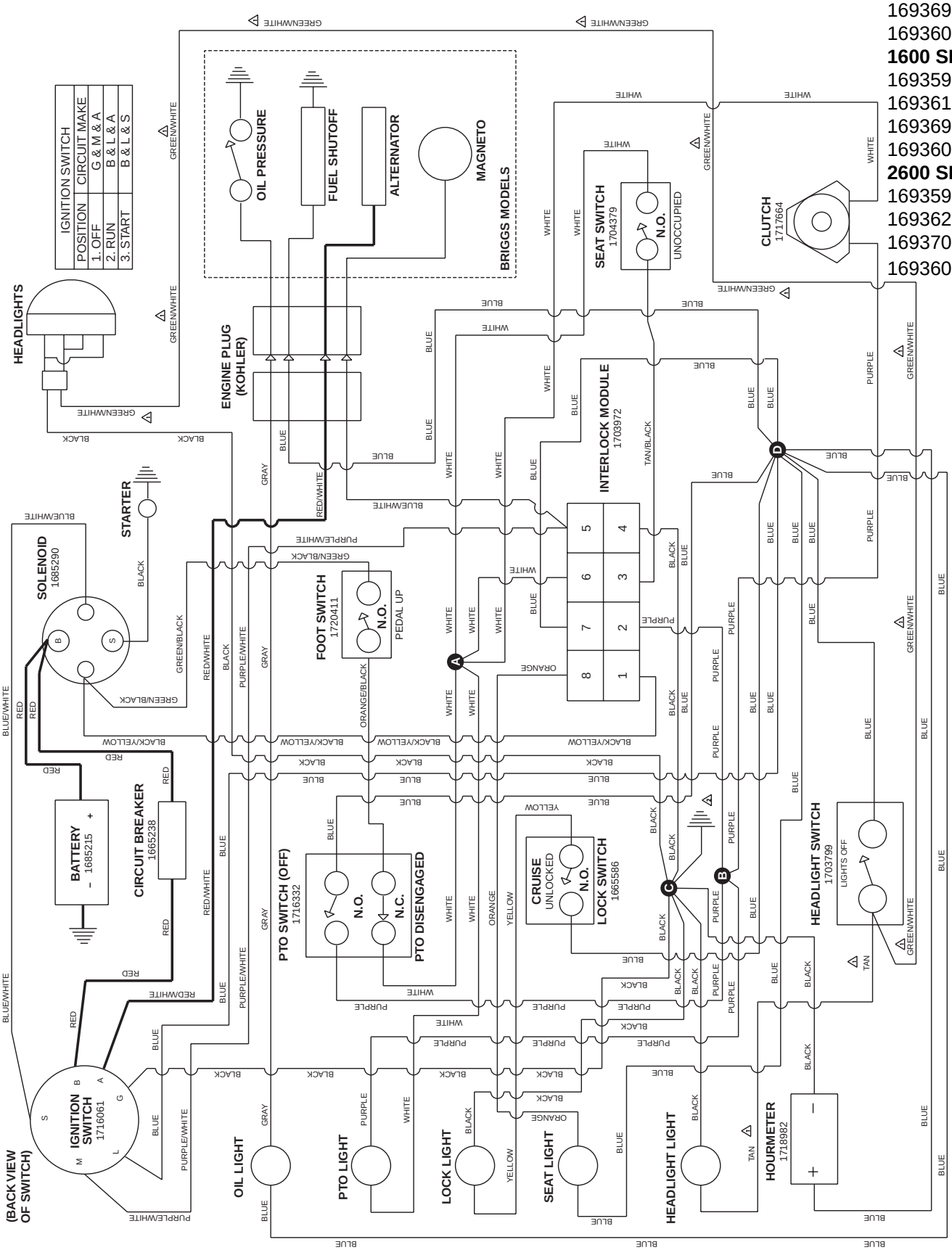
## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

**BROADMOOR SERIES**
1693580-16HP
1693592-16HP
1693694-17HP
1693600-18HP
**1600 SERIES**
1693596-16HP
1693617-16HP
1693698-17HP
1693602-18HP
**2600 SERIES**
1693598-16HP
1693622-16HP
1693700-17HP
1693604-18HP



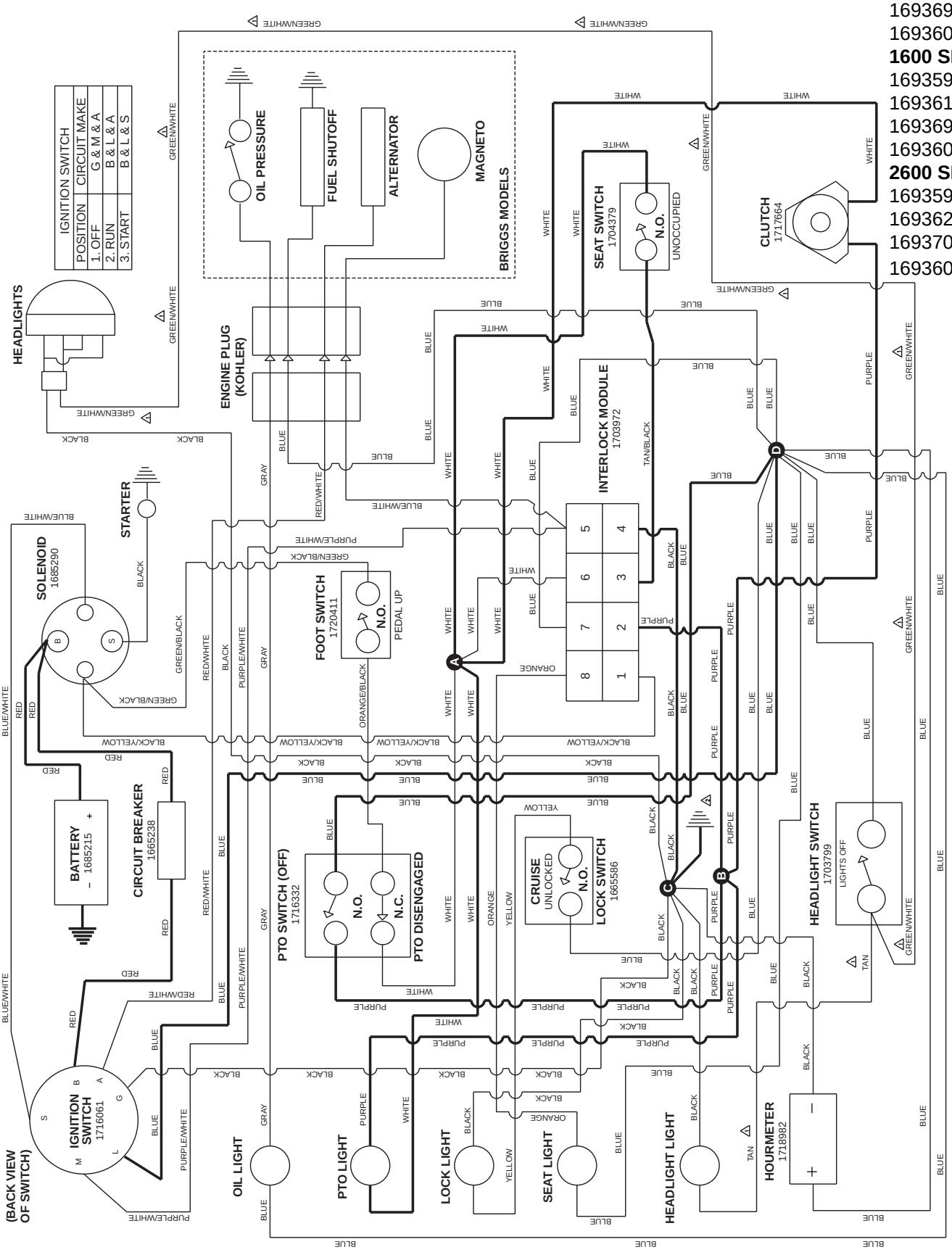
## CHARGING CIRCUIT

**BROADMOOR SERIES**
1693580-16HP
1693592-16HP
1693694-17HP
1693600-18HP
**1600 SERIES**
1693596-16HP
1693617-16HP
1693698-17HP
1693602-18HP
**2600 SERIES**
1693598-16HP
1693622-16HP
1693700-17HP
1693604-18HP



## CLUTCH CIRCUIT

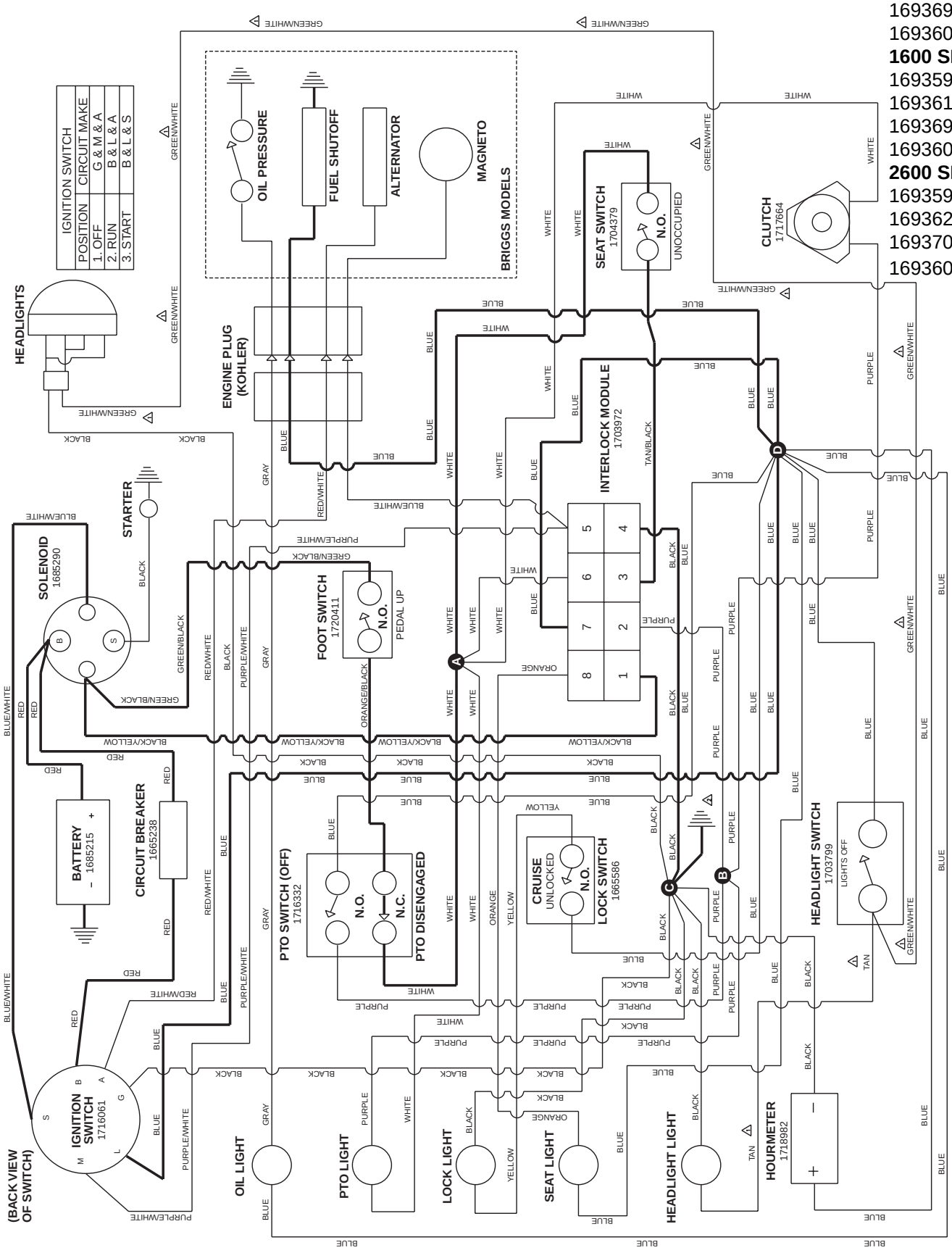
**BROADMOOR SERIES**
1693580-16HP
1693592-16HP
1693694-17HP
1693600-18HP
**1600 SERIES**
1693596-16HP
1693617-16HP
1693698-17HP
1693602-18HP
**2600 SERIES**
1693598-16HP
1693622-16HP
1693700-17HP
1693604-18HP



## SAFETY START & OPERATOR PRESENT CIRCUIT

**See page one for proper safety start and operator present seat switch operation.**

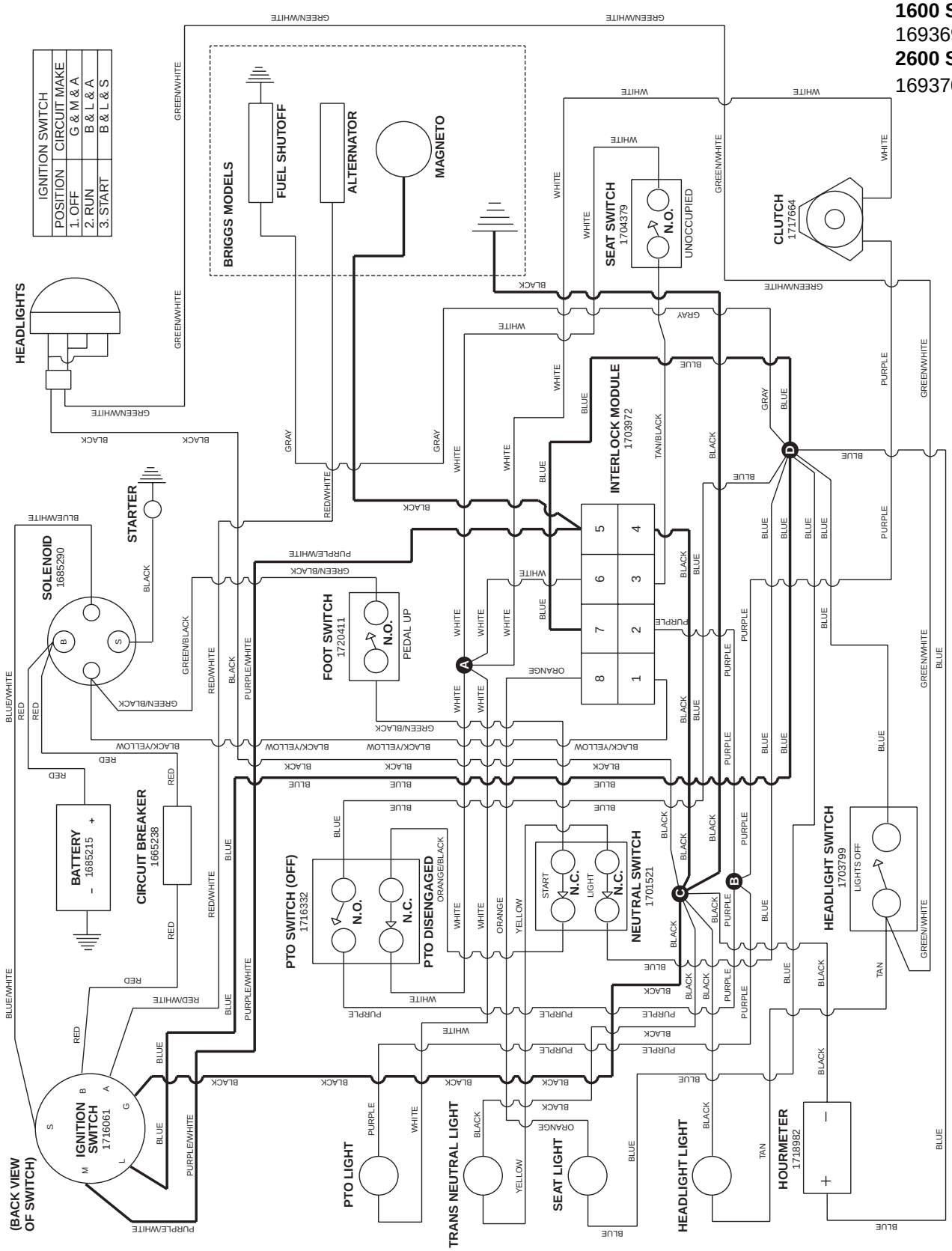
**BROADMOOR SERIES**
1693580-16HP
1693592-16HP
1693694-17HP
1693600-18HP
**1600 SERIES**
1693596-16HP
1693617-16HP
1693698-17HP
1693602-18HP
**2600 SERIES**
1693598-16HP
1693622-16HP
1693700-17HP
1693604-18HP



## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

**HAND CONTROL UNIT**

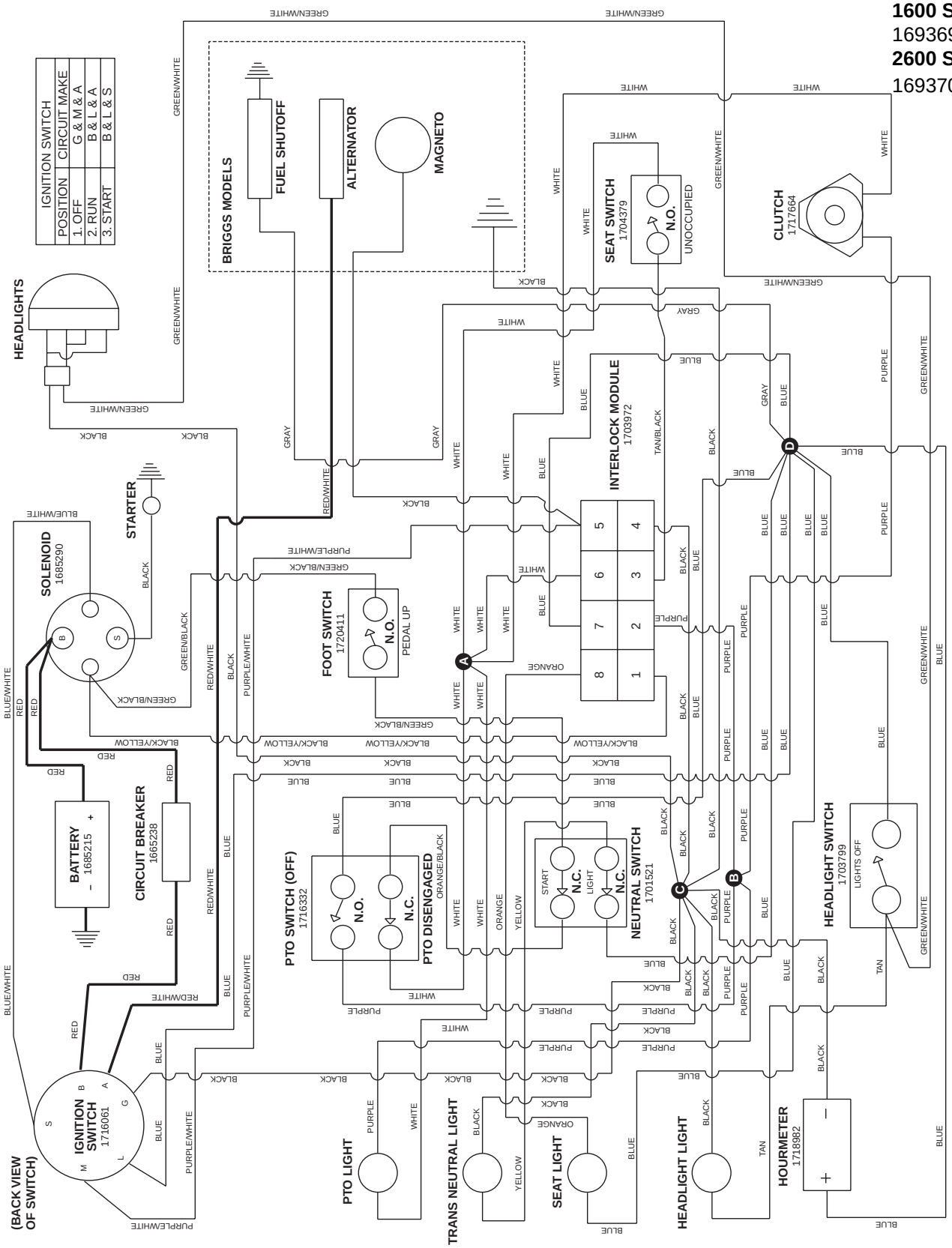
**BROADMOOR SERIES**
1693694-17HP
**1600 SERIES**
1693698-17HP
**2600 SERIES**
1693700-17HP



## CHARGING CIRCUIT

**HAND CONTROL UNIT**

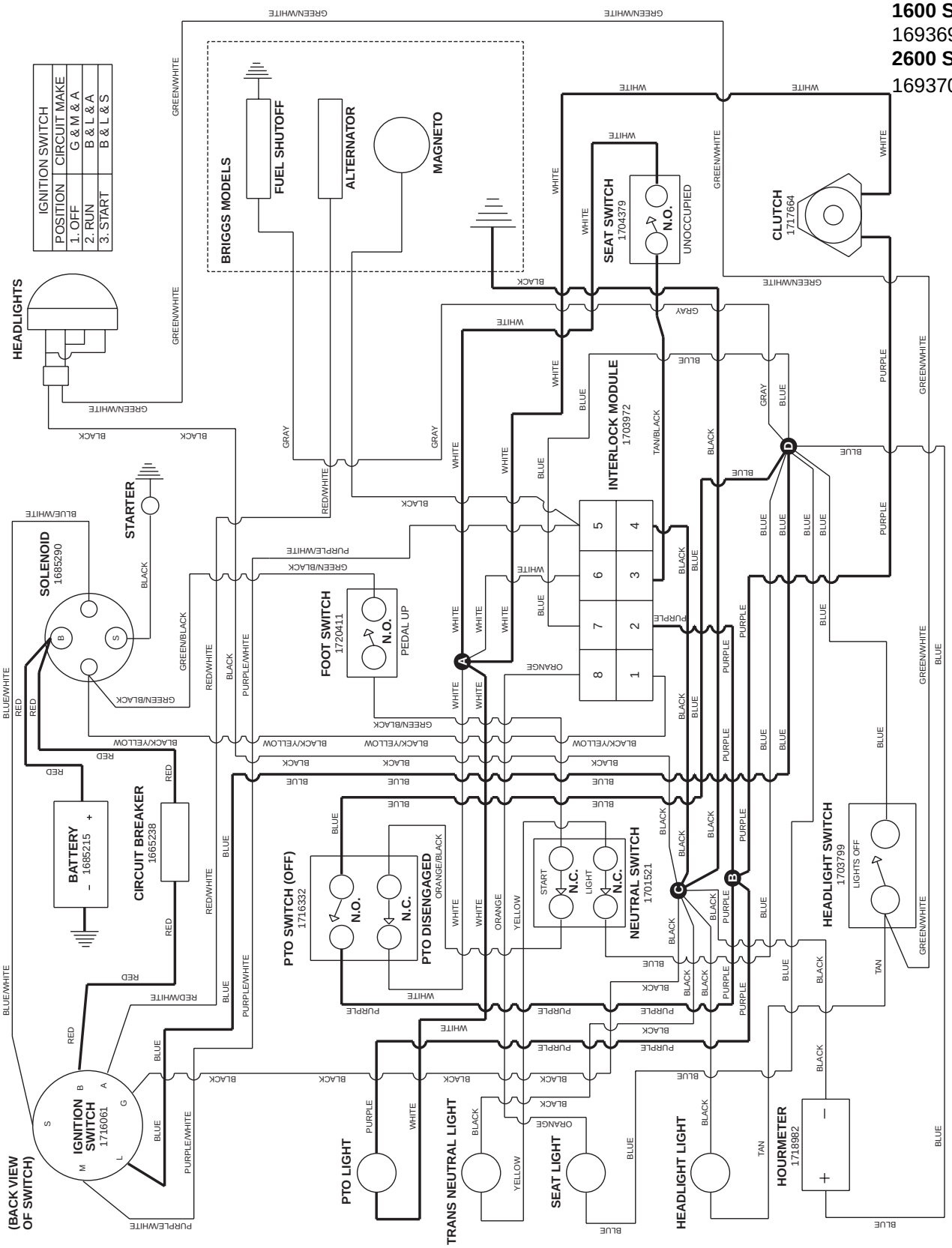
**BROADMOOR SERIES**
1693694-17HP
**1600 SERIES**
1693698-17HP
**2600 SERIES**
1693700-17HP



## CLUTCH CIRCUIT

**HAND CONTROL UNIT**

**BROADMOOR SERIES**
1693694-17HP
**1600 SERIES**
1693698-17HP
**2600 SERIES**
1693700-17HP

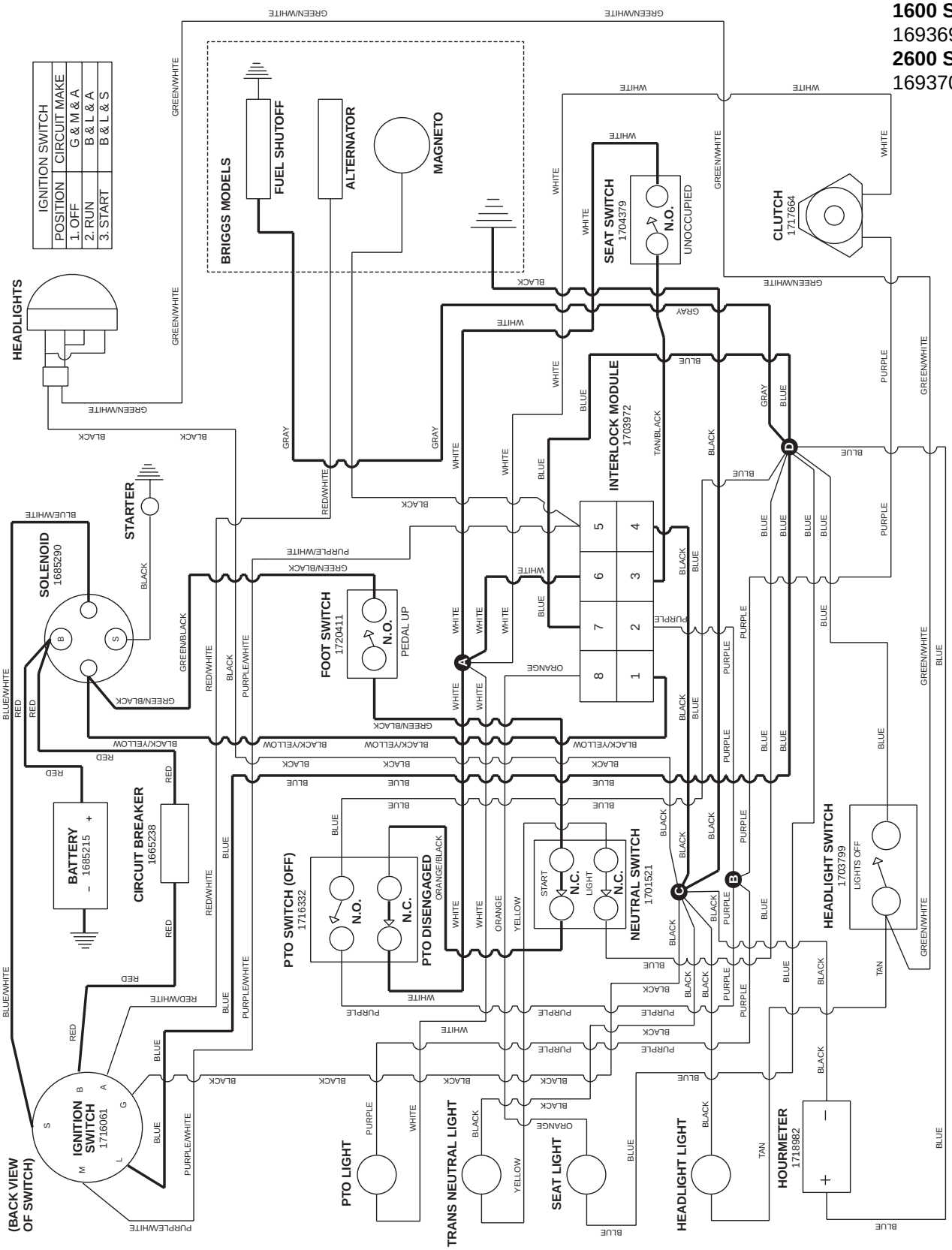


## SAFETY START & OPERATOR PRESENT CIRCUIT

**See page one for proper safety start and operator present seat switch operation.**

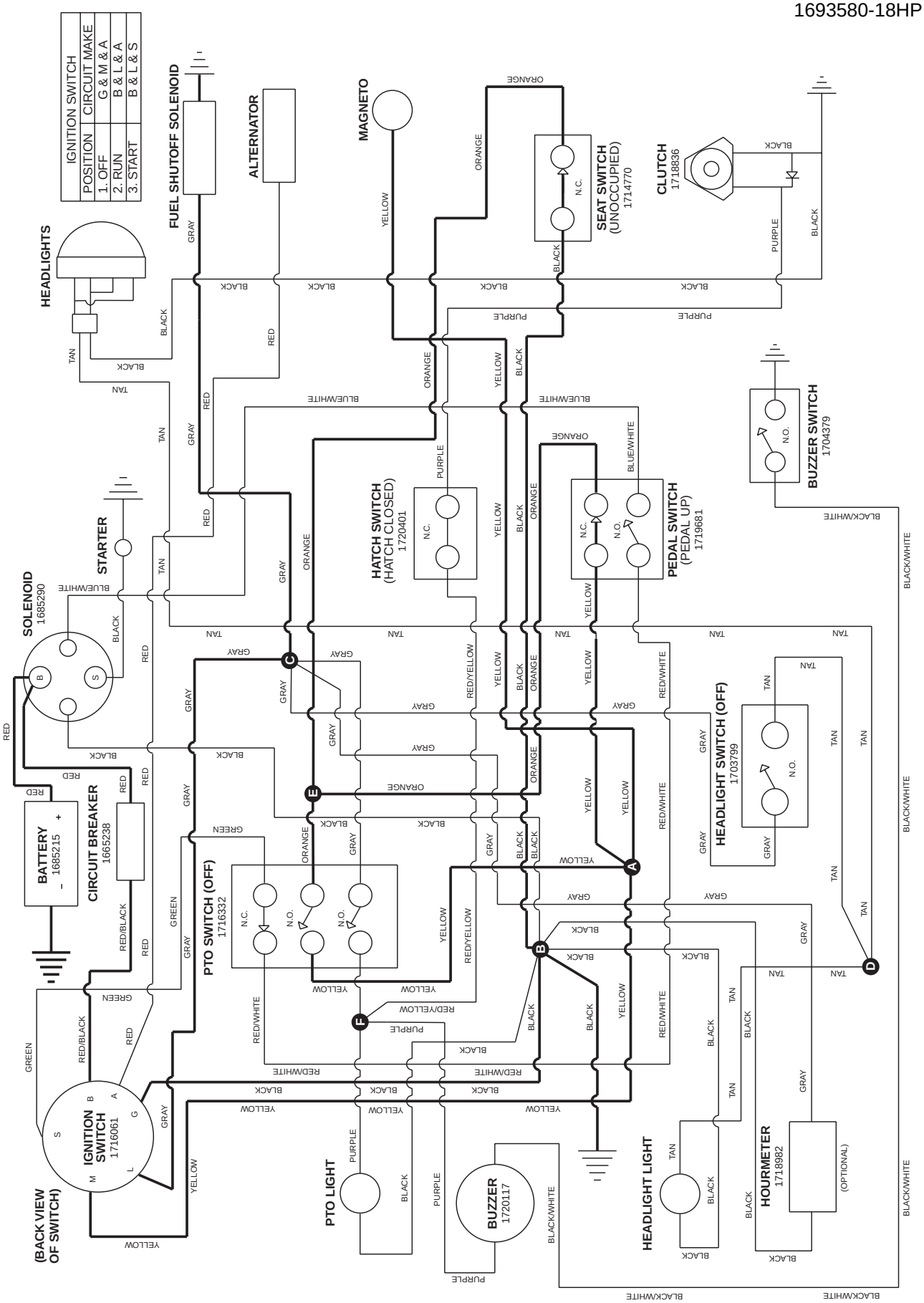
**HAND CONTROL UNIT**

**BROADMOOR SERIES**
1693694-17HP
**1600 SERIES**
1693698-17HP
**2600 SERIES**
1693700-17HP



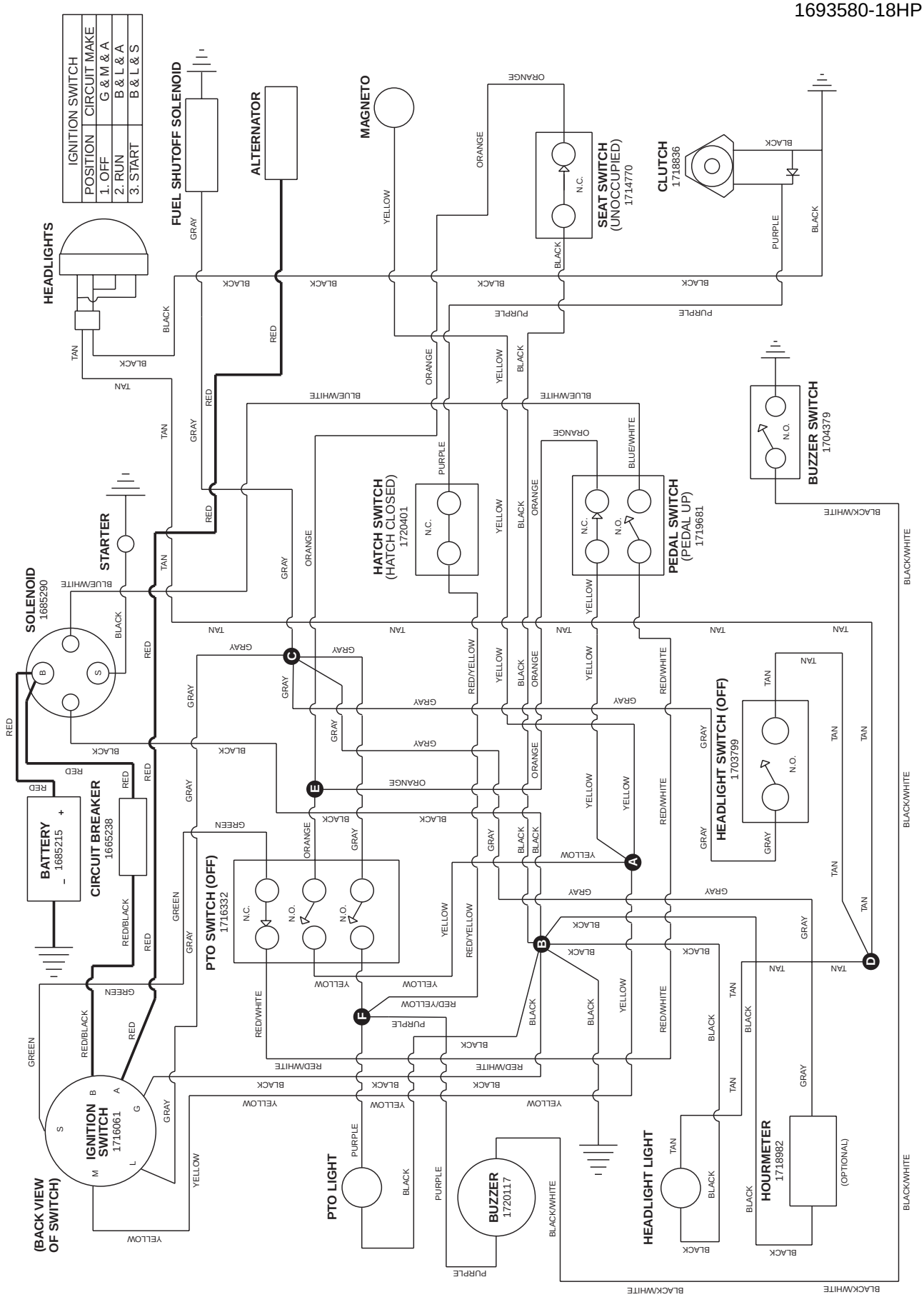
## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

**BARON SERIES**
1693580-18HP



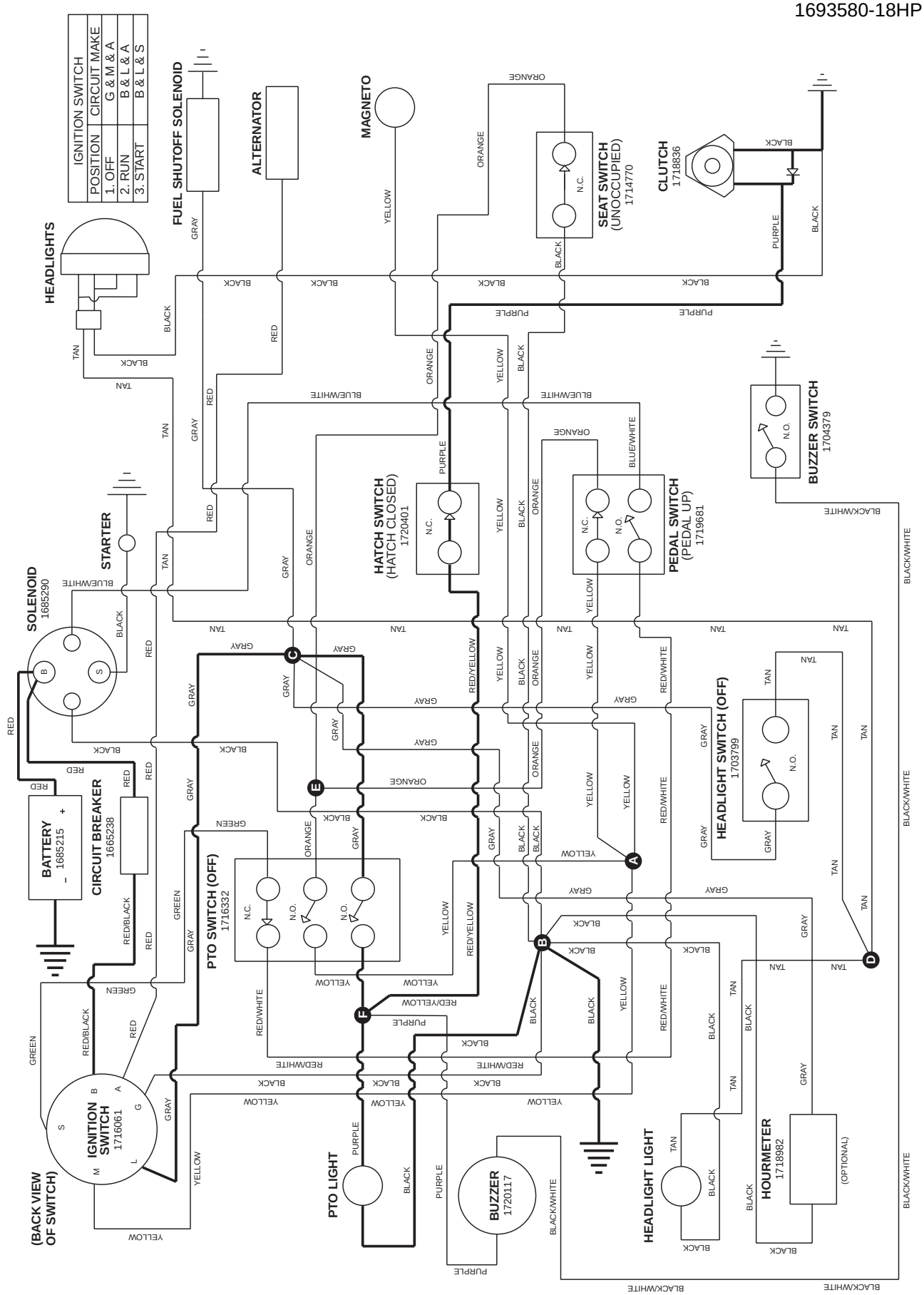
## CHARGING CIRCUIT

**BARON SERIES**
1693580-18HP



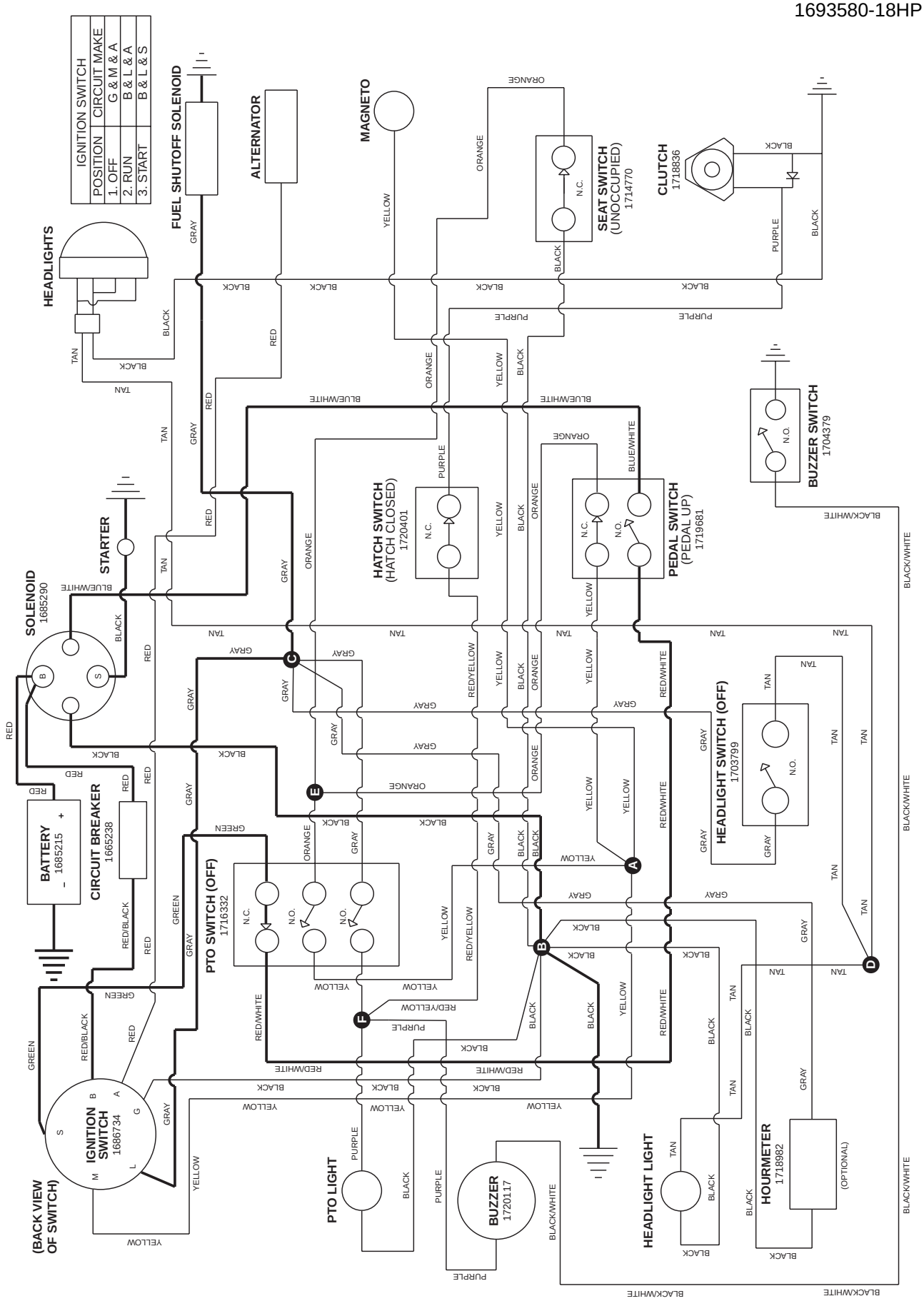
## PTO CLUTCH CIRCUIT

**BARON SERIES**
1693580-18HP



## CRANKING CIRCUIT

**BARON SERIES**
1693580-18HP



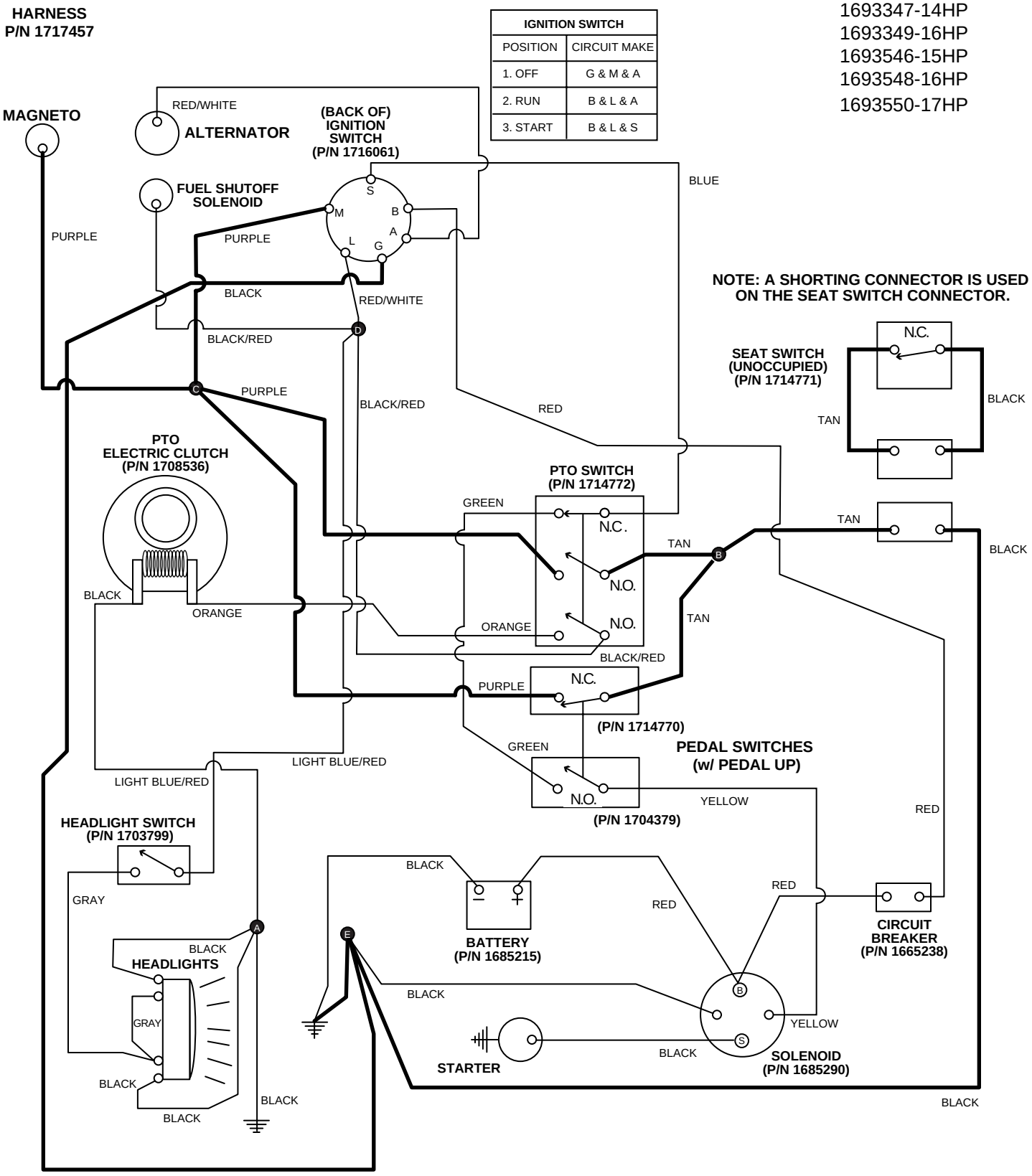
## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

**(HYDRO MODELS)**

**REGENT SERIES**
1693325-14HP
1693329-16HP
1693528-15HP
1693530-16HP
1693532-17HP

**500 SERIES**
1693341-14HP
1693343-16HP
1693540-15HP
1693542-16HP
1693544-17HP

**2500 SERIES**
1693347-14HP
1693349-16HP
1693546-15HP
1693548-16HP
1693550-17HP

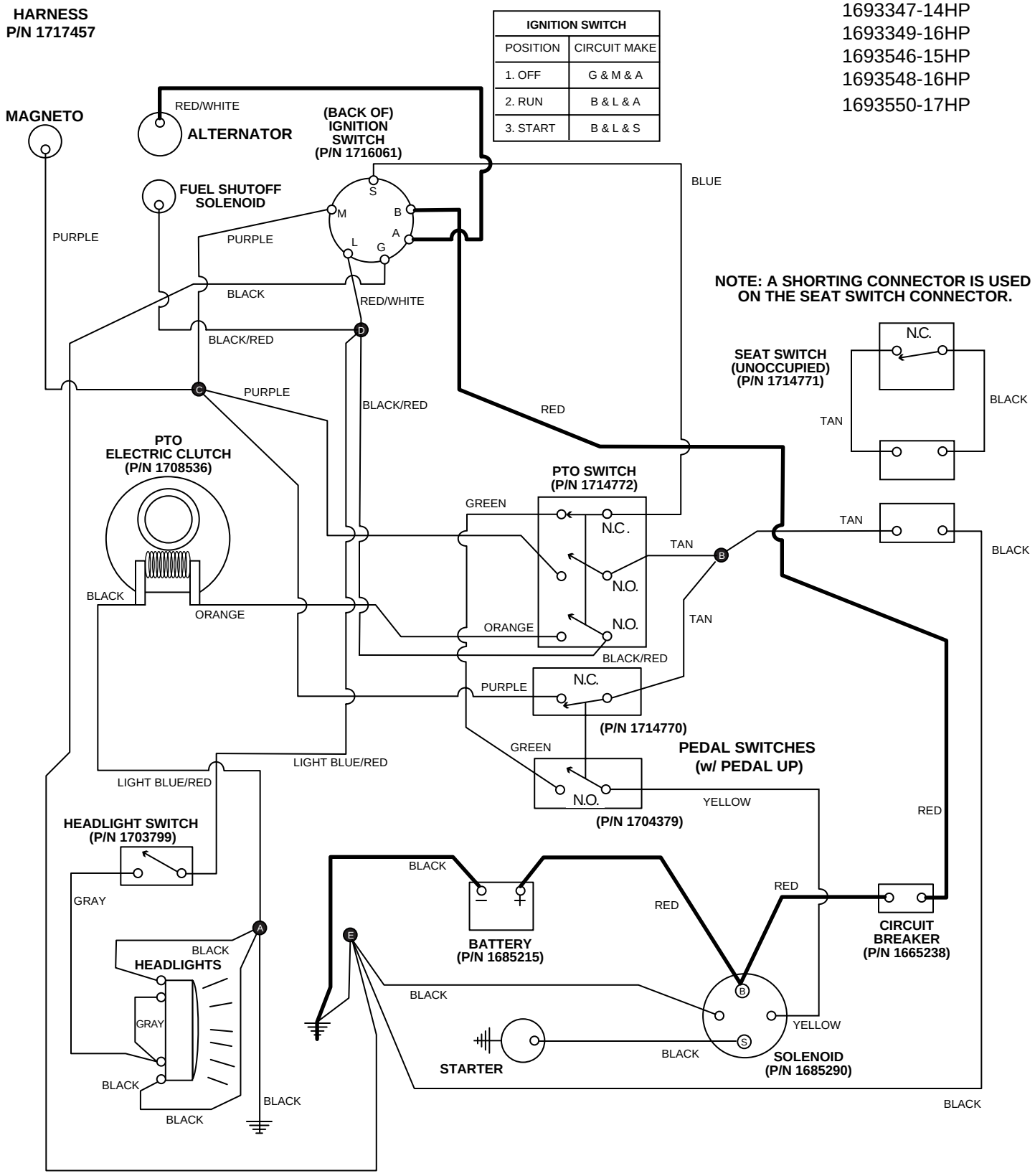


## CHARGING CIRCUIT

**(HYDRO MODELS)**
**REGENT SERIES**
1693325-14HP
1693329-16HP
1693528-15HP
1693530-16HP
1693532-17HP

**500 SERIES**
1693341-14HP
1693343-16HP
1693540-15HP
1693542-16HP
1693544-17HP

**2500 SERIES**
1693347-14HP
1693349-16HP
1693546-15HP
1693548-16HP
1693550-17HP

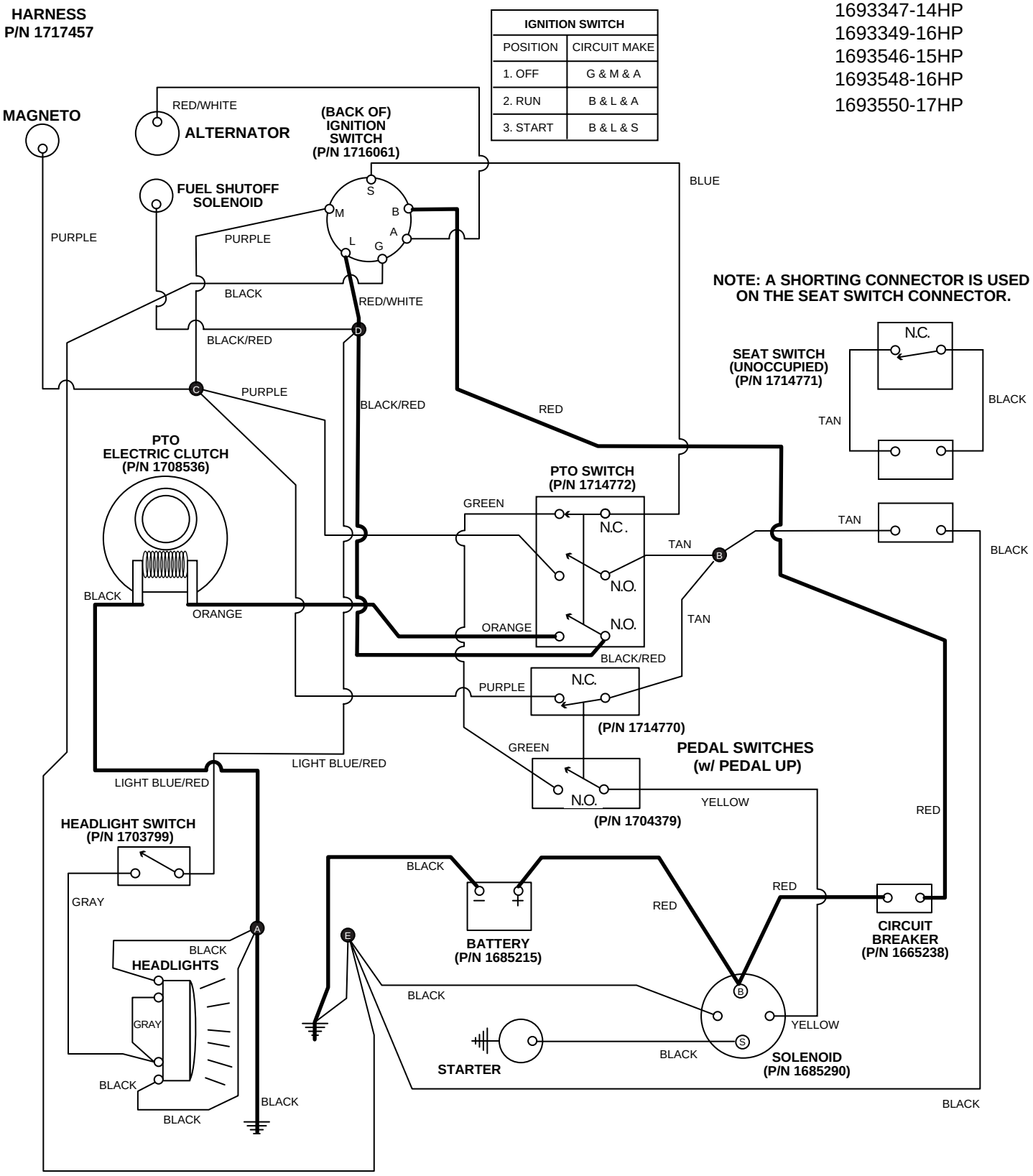


## PTO CLUTCH CIRCUIT

**(HYDRO MODELS)**
**REGENT SERIES**
1693325-14HP
1693329-16HP
1693528-15HP
1693530-16HP
1693532-17HP

**500 SERIES**
1693341-14HP
1693343-16HP
1693540-15HP
1693542-16HP
1693544-17HP

**2500 SERIES**
1693347-14HP
1693349-16HP
1693546-15HP
1693548-16HP
1693550-17HP

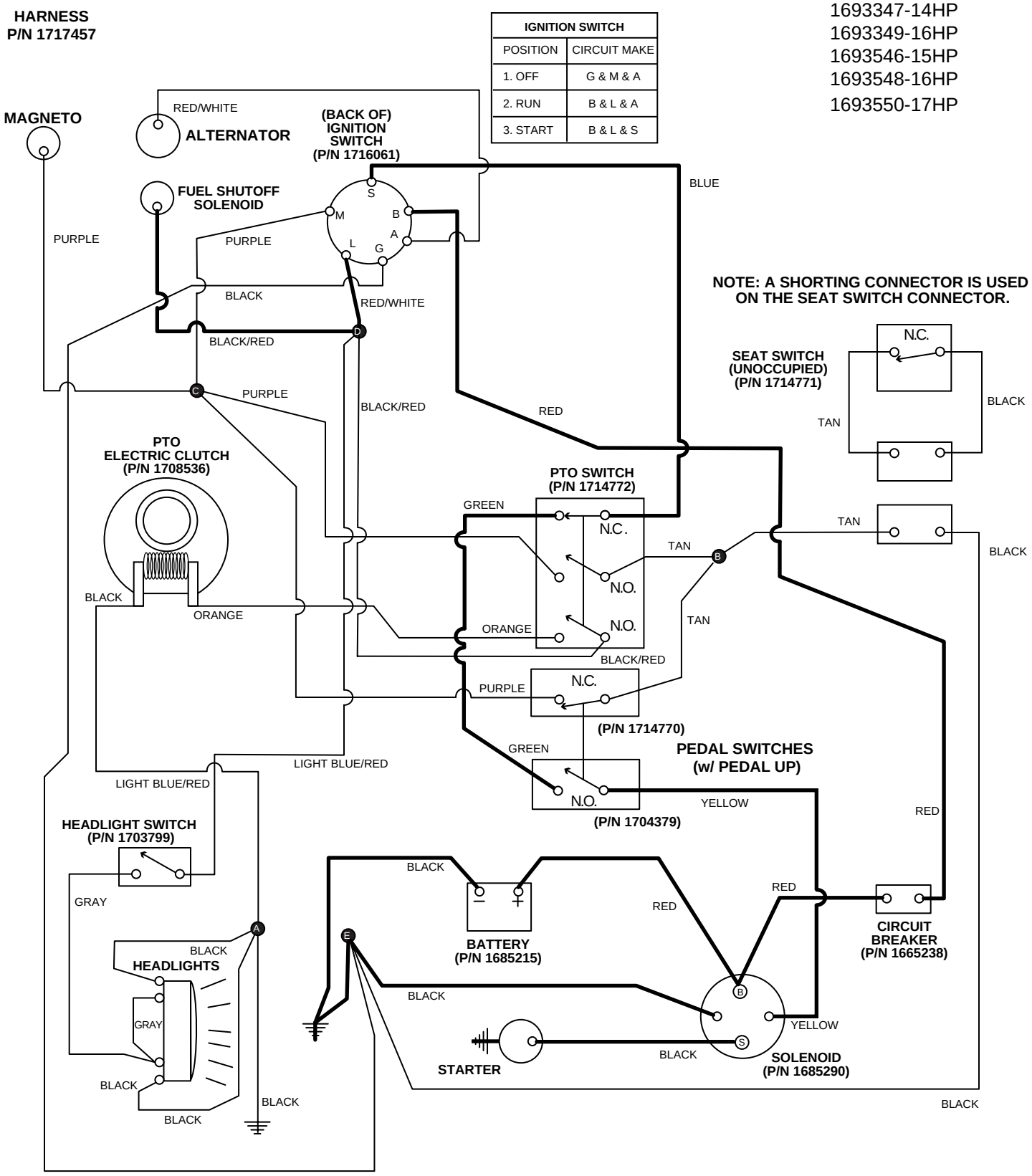


## CRANKING CIRCUIT

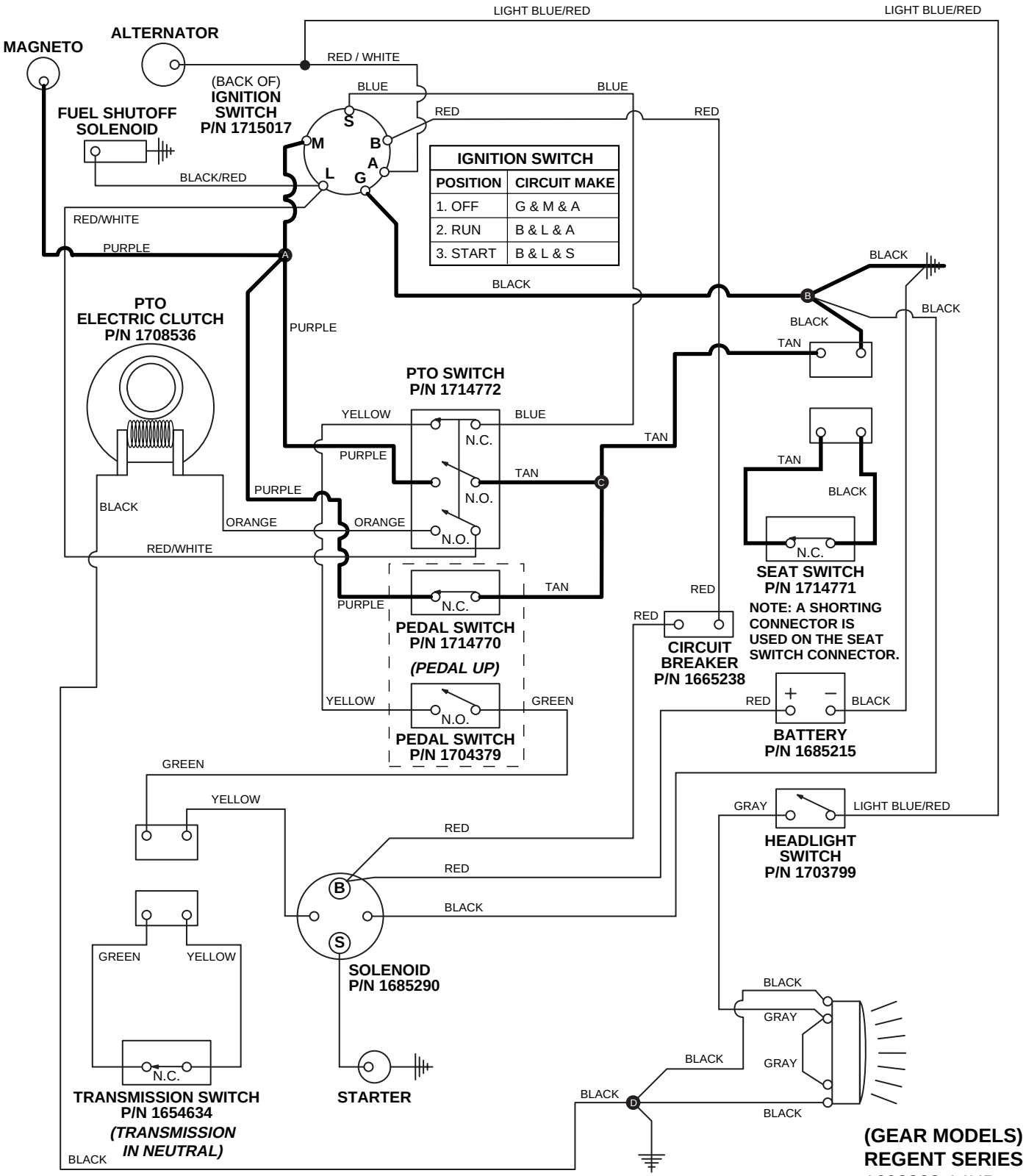
**(HYDRO MODELS)**
**REGENT SERIES**
1693325-14HP
1693329-16HP
1693528-15HP
1693530-16HP
1693532-17HP

**500 SERIES**
1693341-14HP
1693343-16HP
1693540-15HP
1693542-16HP
1693544-17HP

**2500 SERIES**
1693347-14HP
1693349-16HP
1693546-15HP
1693548-16HP
1693550-17HP

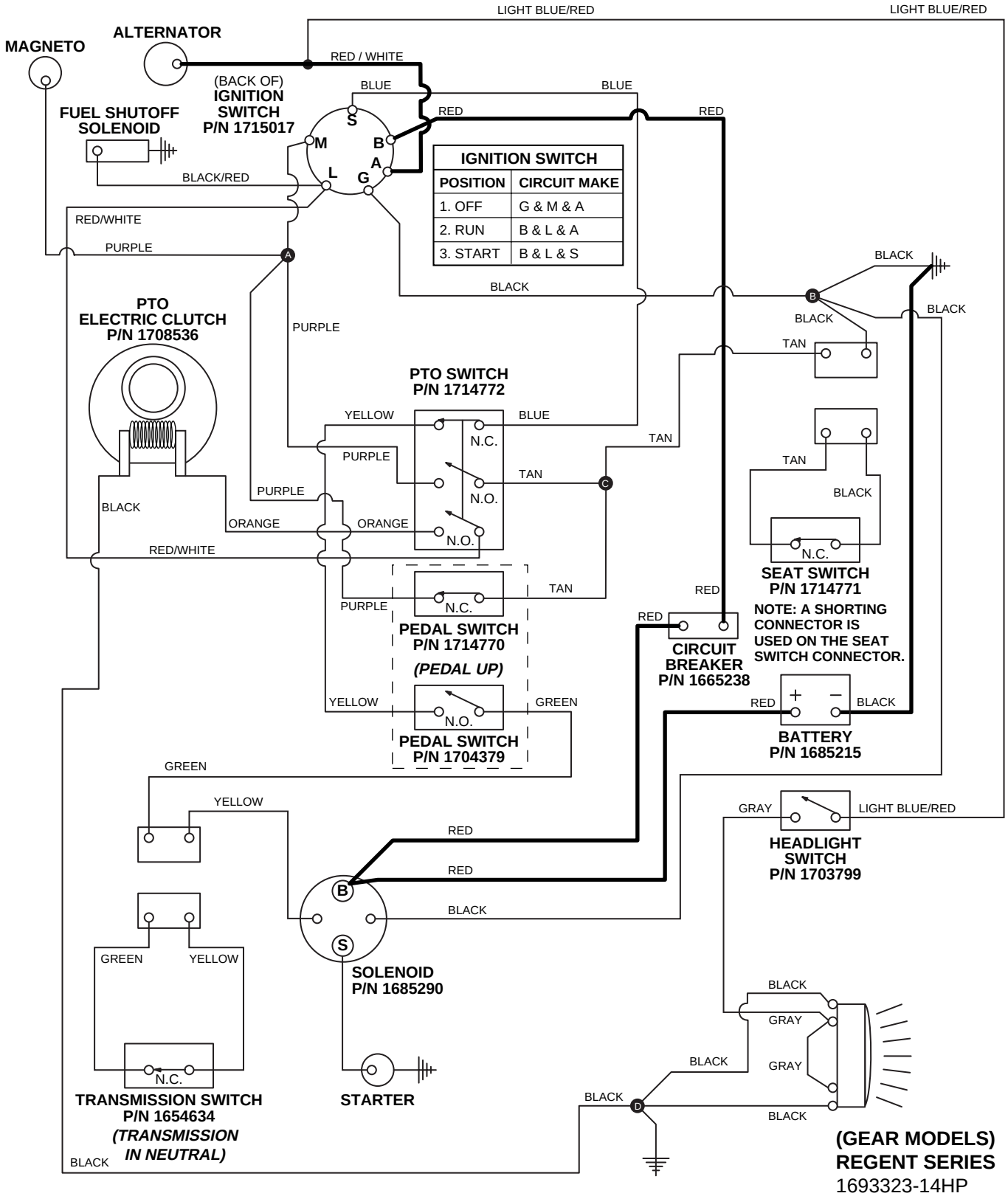


## IGNITION CIRCUIT/SHUTDOWN CIRCUIT



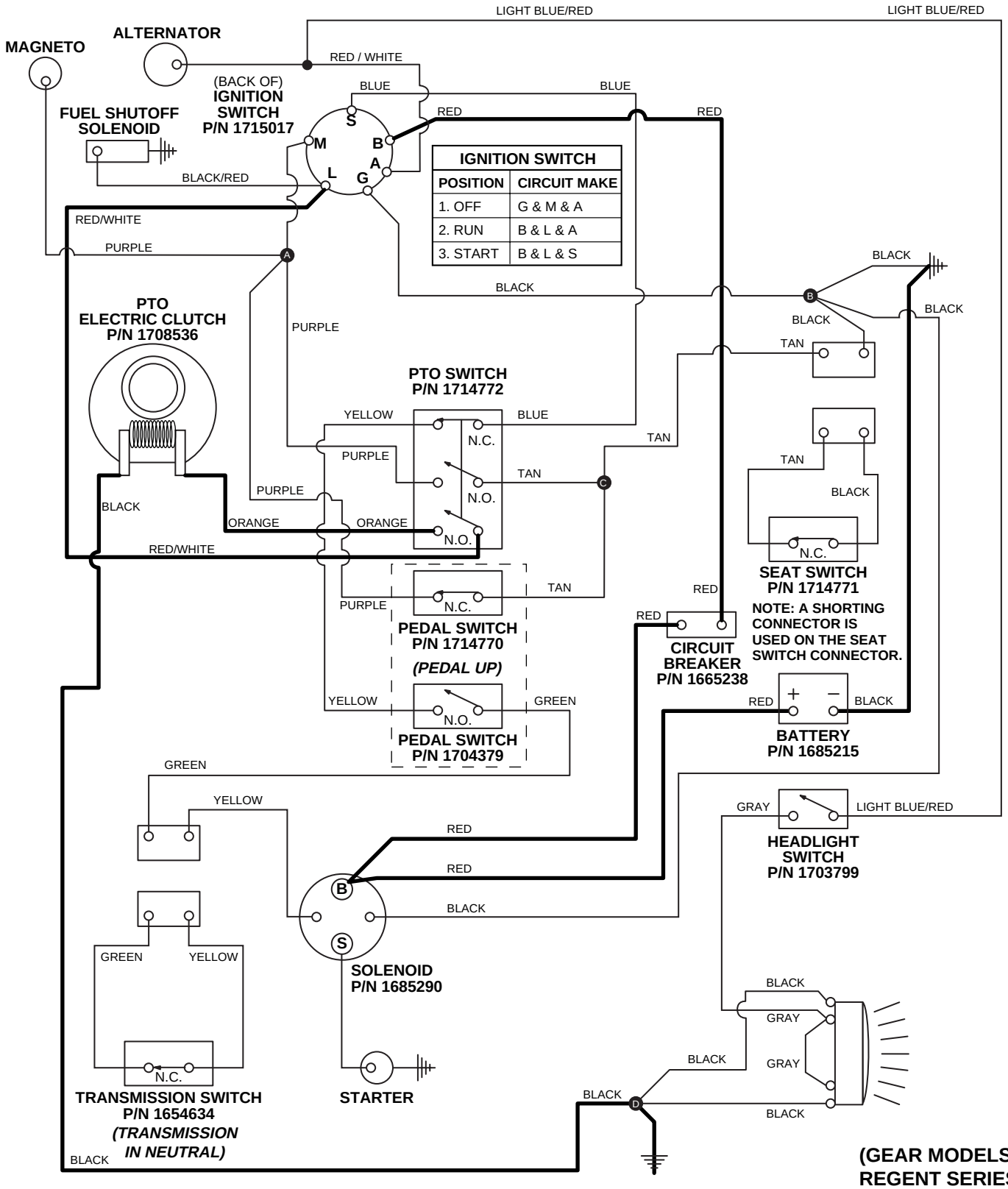

**(GEAR MODELS)**
**REGENT SERIES**
1693323-14HP
**500 SERIES**
1693339-14HP
**2500 SERIES**
1693345-14HP

## CHARGING CIRCUIT



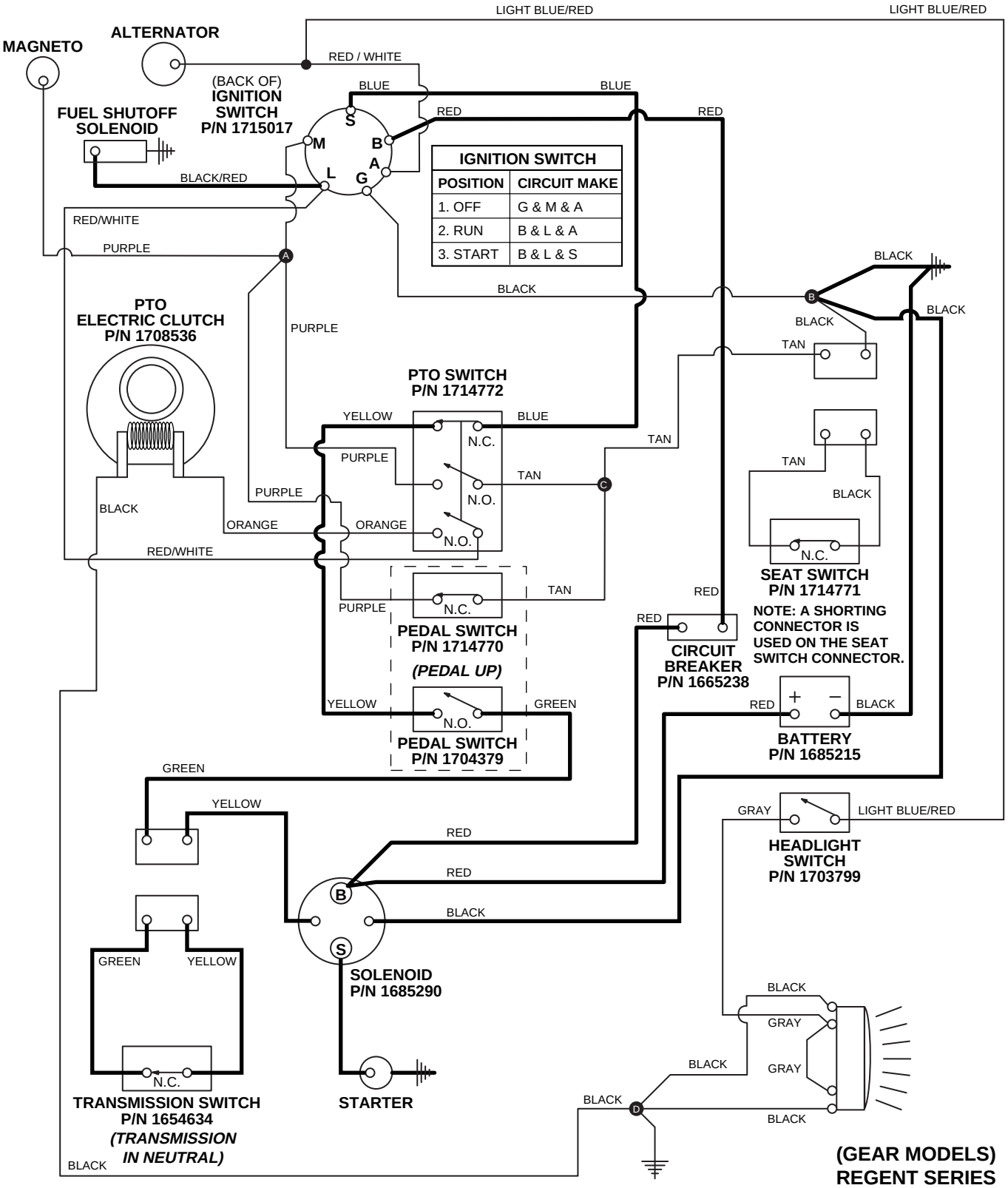

**(GEAR MODELS)**
**REGENT SERIES**
1693323-14HP
**500 SERIES**
1693339-14HP
**2500 SERIES**
1693345-14HP

## PTO CLUTCH CIRCUIT




**(GEAR MODELS)**
**REGENT SERIES**
1693323-14HP
**500 SERIES**
1693339-14HP
**2500 SERIES**
1693345-14HP

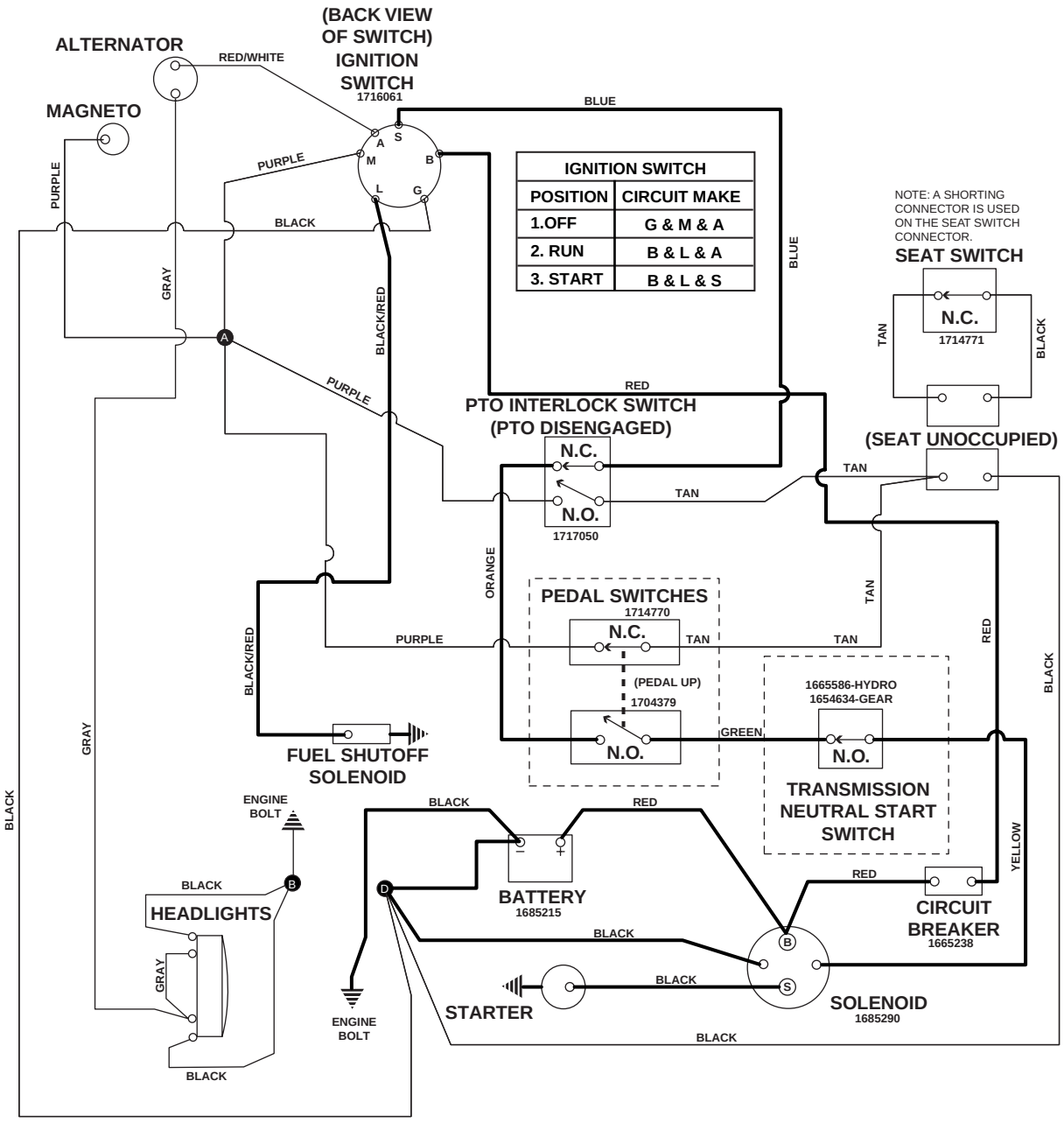
## CRANKING CIRCUIT




**(GEAR MODELS)**
**REGENT SERIES**
1693323-14HP
**500 SERIES**
1693339-14HP
**2500 SERIES**
1693345-14HP

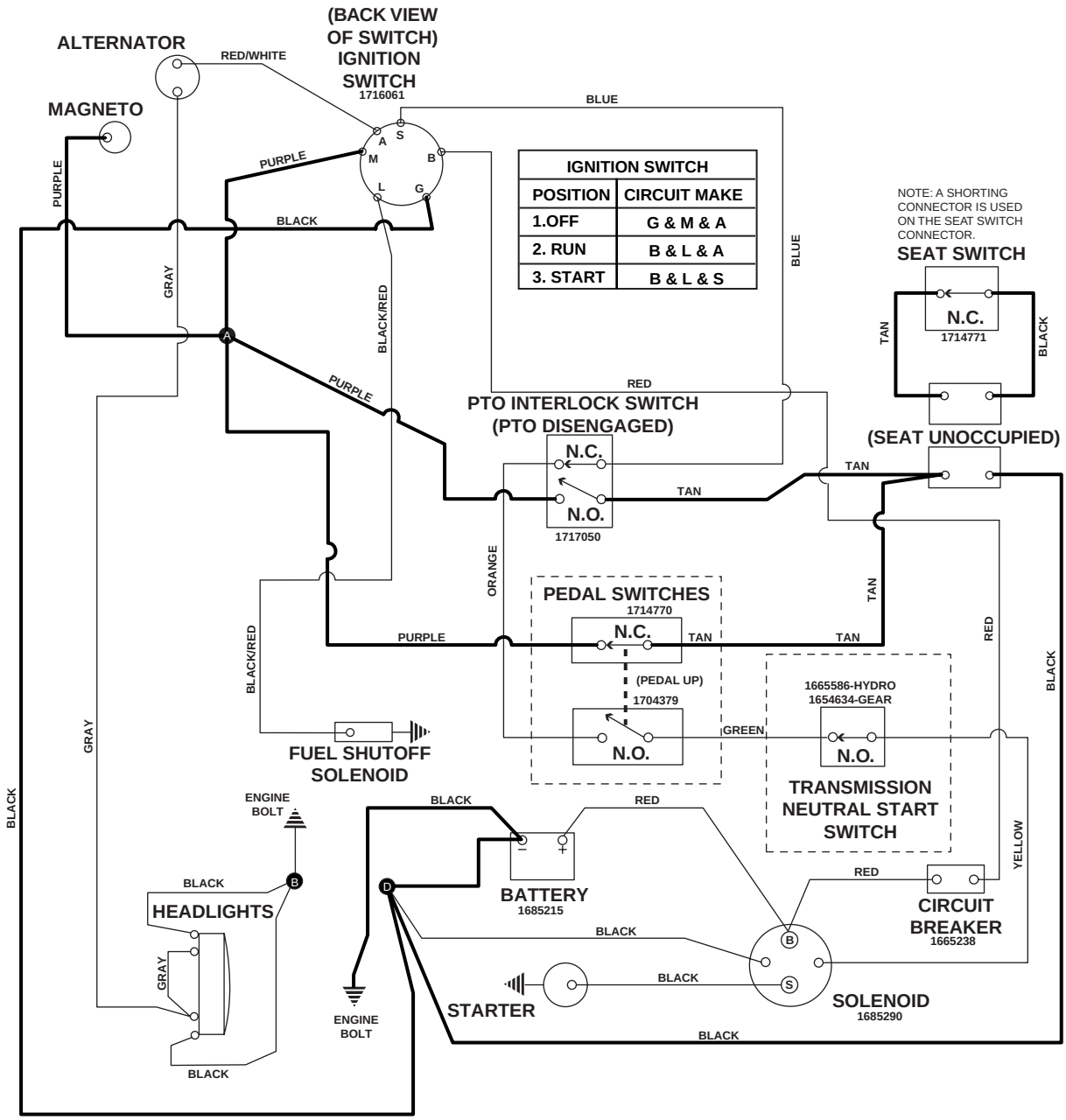
## CRANKING CIRCUIT

**EXPRESS SERIES**
1693452-14.5 HP
1693458-15.5 HP-H
1693525-17 HP-H



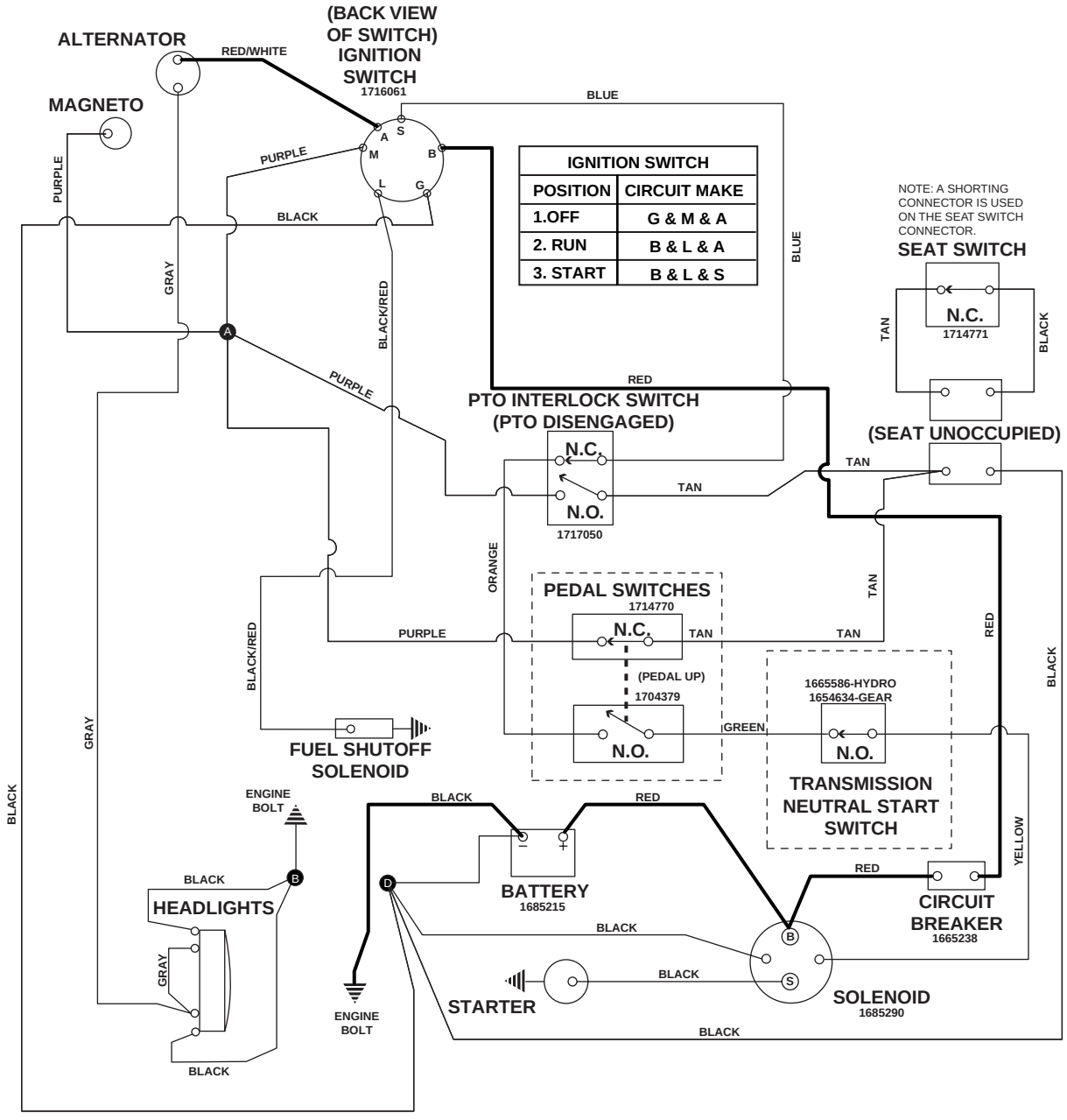
## IGNITION CIRCUIT/SHUTDOWN CIRCUIT

**EXPRESS SERIES**
1693452-14.5 HP
1693458-15.5 HP-H
1693525-17 HP-H

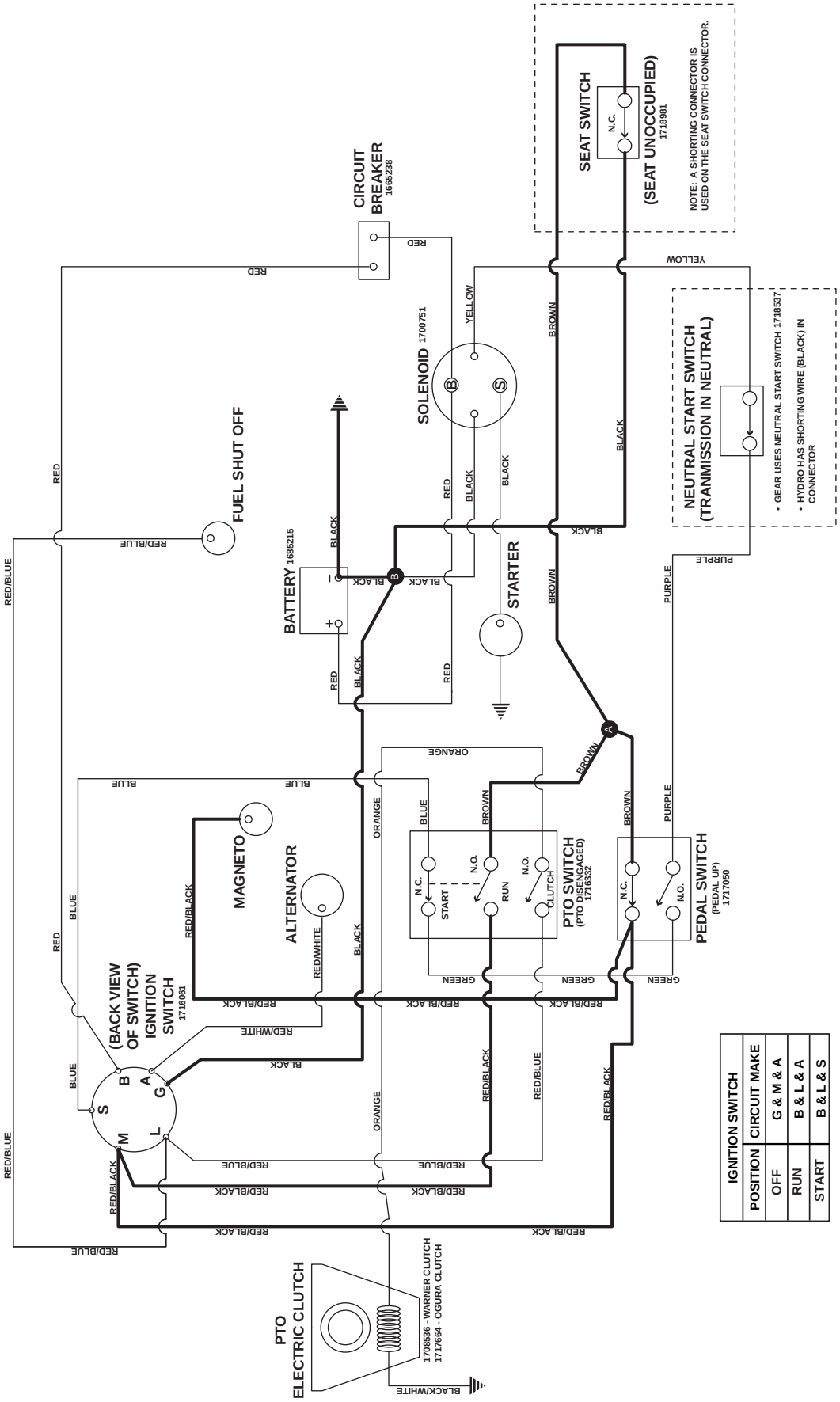


## CHARGING CIRCUIT

**EXPRESS SERIES**
1693452-14.5 HP
1693458-15.5 HP-H
1693525-17 HP-H

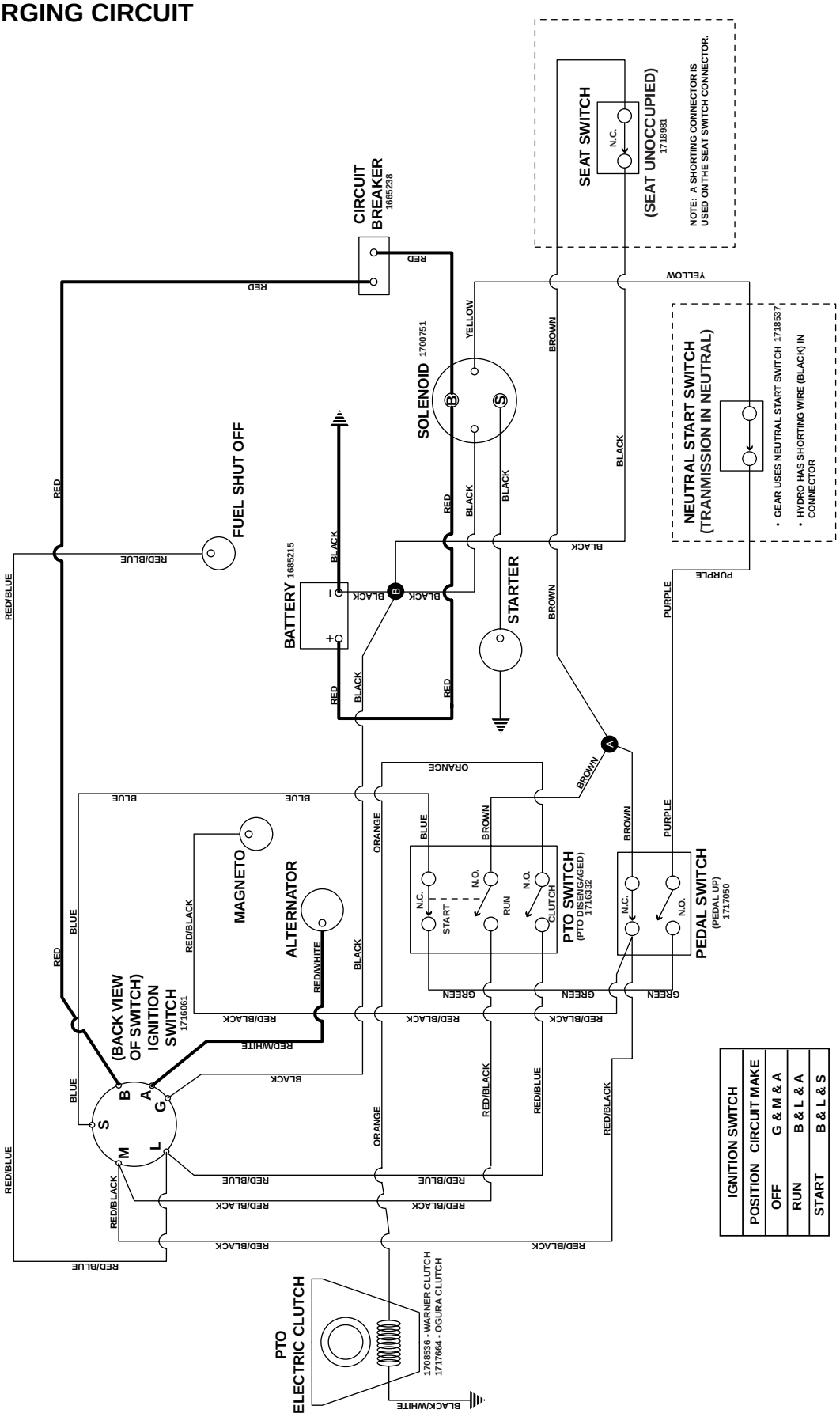


## IGNITION CIRCUIT/SHUTDOWN CIRCUIT




**(HYDRO AND GEAR MODELS)**
**ZT & CORONET SERIES**
1693230-18 HP
1693286-14 HP
1693288-16 HP
1693467-14 HP
1693473-16 HP
1693303-11 HP-G
1693305-13 HP
1693307-14 HP
**ZT & 400 SERIES**
1693232-18 HP
1693296-14 HP
1693298-16 HP
1693469-14 HP
1693475-16 HP
1693315-11 HP-G
1693317-14 HP
**ZT & 2400 SERIES**
1693234-18 HP
1693300-14 HP
1693302-16 HP
1693471-14 HP
1693477-16 HP
1693319-11 HP-G
1693321-14 HP

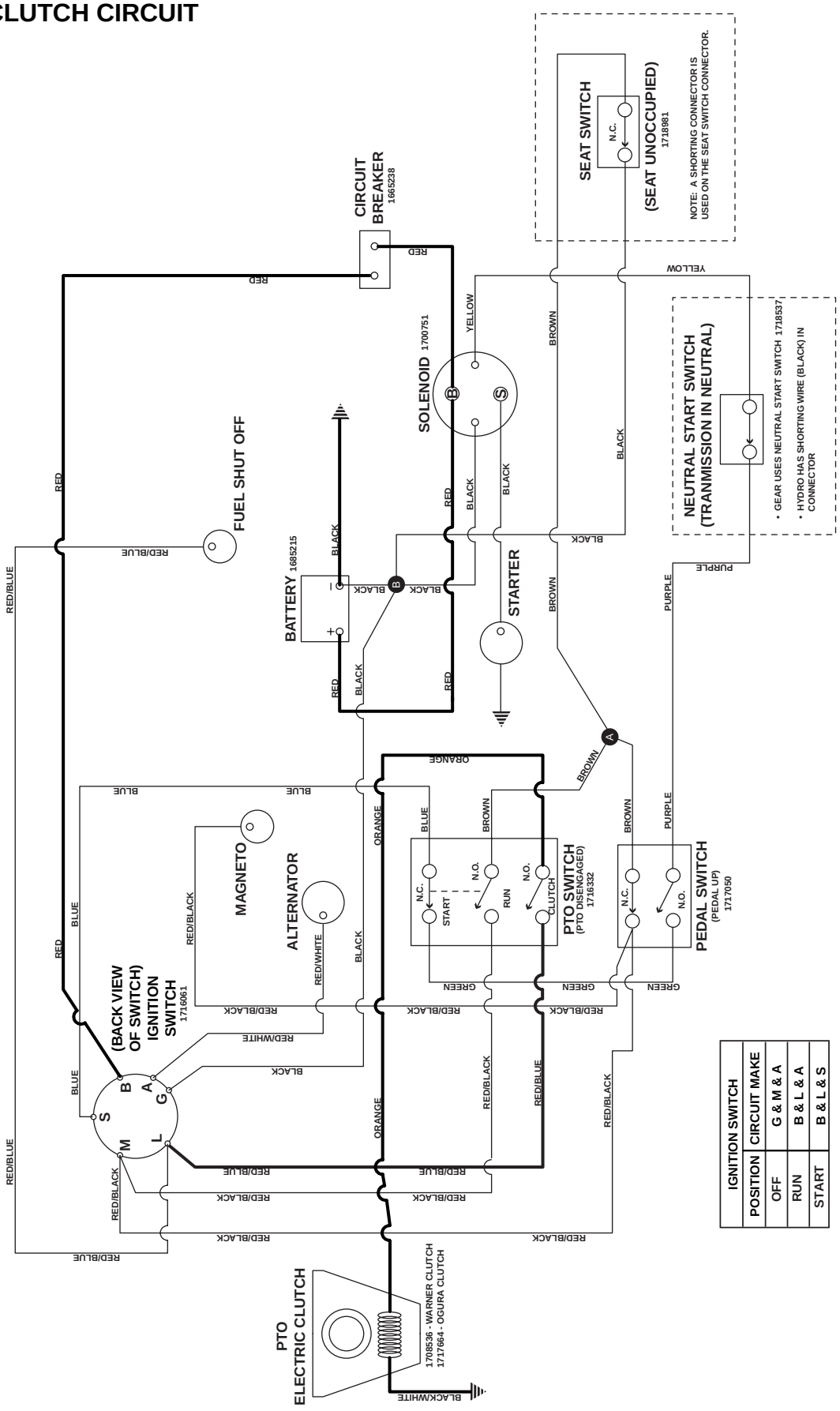
## CHARGING CIRCUIT




| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| OFF | G & M & A |
| RUN | B & L & A |
| START | B & L & S |

**(HYDRO AND GEAR MODELS)**
**ZT & CORONET SERIES**
1693230-18 HP
1693286-14 HP
1693288-16 HP
1693467-14 HP
1693473-16 HP
1693303-11 HP-G
1693305-13 HP
1693307-14 HP
**ZT & 400 SERIES**
1693232-18 HP
1693296-14 HP
1693298-16 HP
1693469-14 HP
1693475-16 HP
1693315-11 HP-G
1693317-14 HP
**ZT & 2400 SERIES**
1693234-18 HP
1693300-14 HP
1693302-16 HP
1693471-14 HP
1693477-16 HP
1693319-11 HP-G
1693321-14 HP

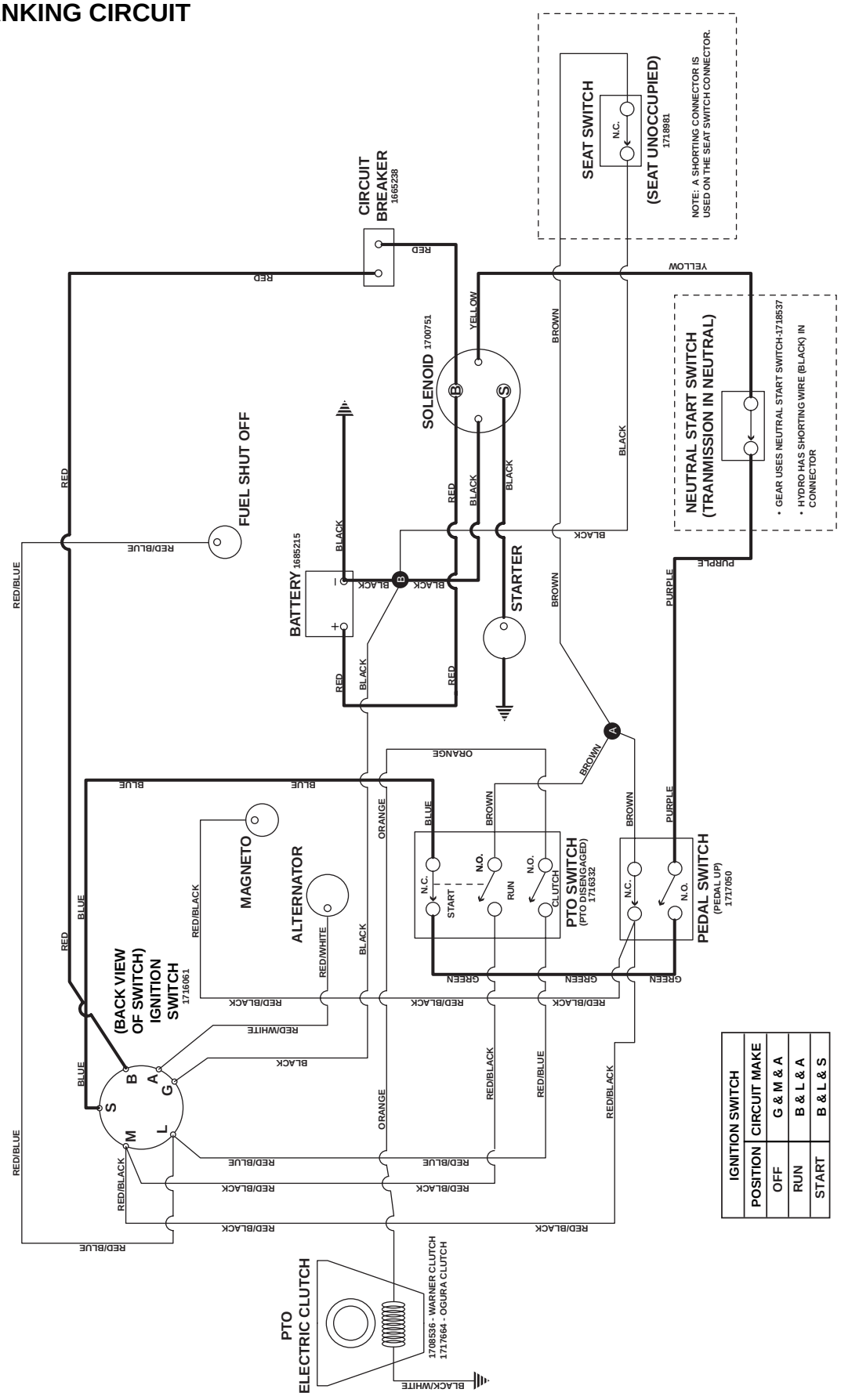
## CLUTCH CIRCUIT




| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| OFF | G & M & A |
| RUN | B & L & A |
| START | B & L & S |

**(HYDRO AND GEAR MODELS)**
**ZT & CORONET SERIES**
1693230-18 HP
1693286-14 HP
1693288-16 HP
1693467-14 HP
1693473-16 HP
1693303-11 HP-G
1693305-13 HP
1693307-14 HP
**ZT & 400 SERIES**
1693232-18 HP
1693296-14 HP
1693298-16 HP
1693469-14 HP
1693475-16 HP
1693315-11 HP-G
1693317-14 HP
**ZT & 2400 SERIES**
1693234-18 HP
1693300-14 HP
1693302-16 HP
1693471-14 HP
1693477-16 HP
1693319-11 HP-G
1693321-14 HP

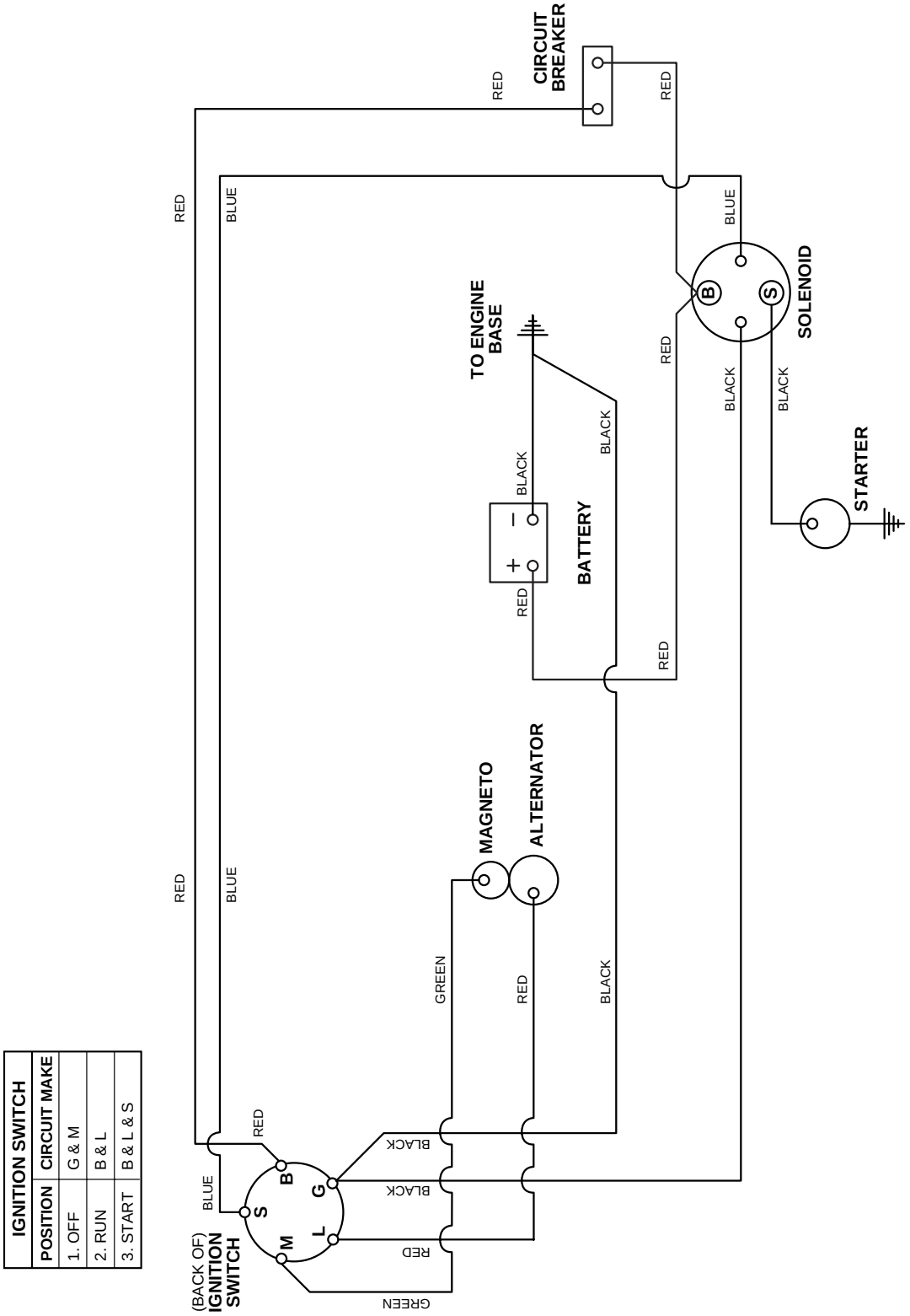
## CRANKING CIRCUIT




| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| OFF | G & M & A |
| RUN | B & L & A |
| START | B & L & S |

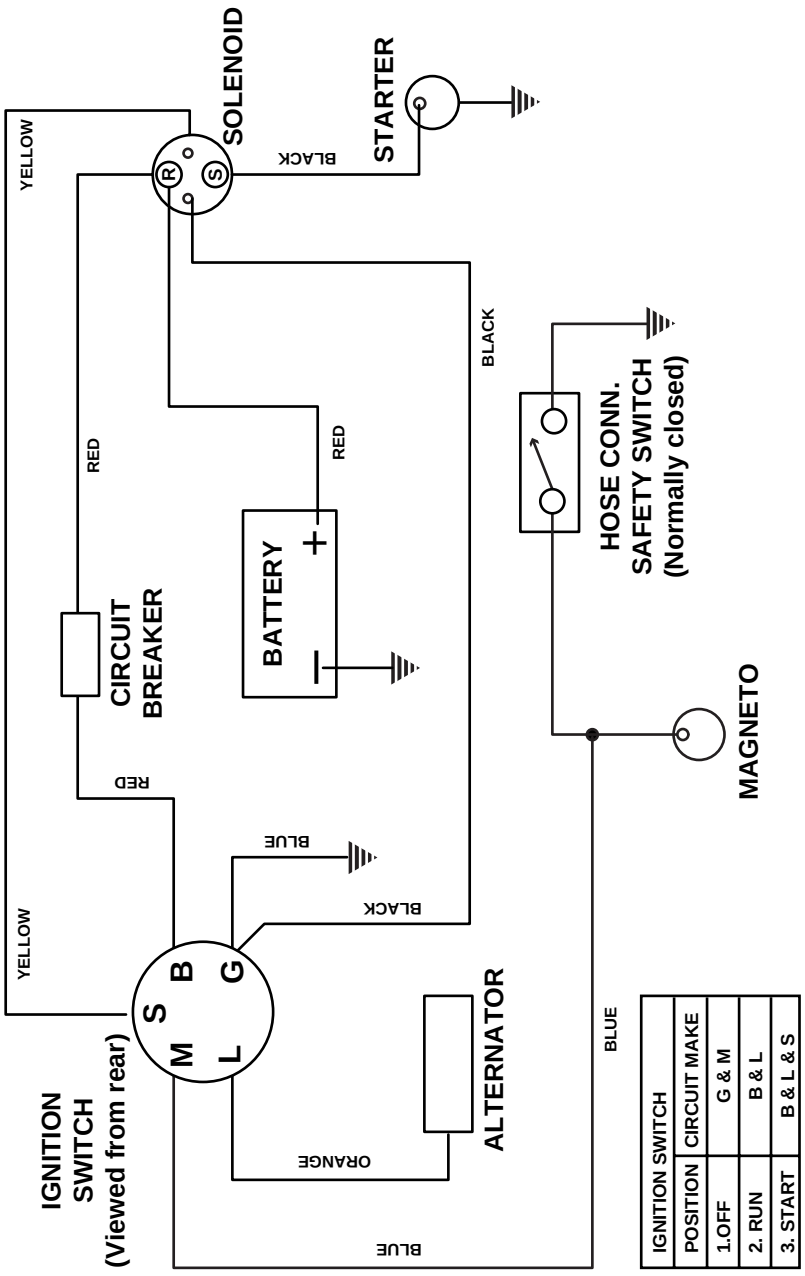
**(HYDRO AND GEAR MODELS)**
**ZT & CORONET SERIES**
1693230-18 HP
1693286-14 HP
1693288-16 HP
1693467-14 HP
1693473-16 HP
1693303-11 HP-G
1693305-13 HP
1693307-14 HP
**ZT & 400 SERIES**
1693232-18 HP
1693296-14 HP
1693298-16 HP
1693469-14 HP
1693475-16 HP
1693315-11 HP-G
1693317-14 HP
**ZT & 2400 SERIES**
1693234-18 HP
1693300-14 HP
1693302-16 HP
1693471-14 HP
1693477-16 HP
1693319-11 HP-G
1693321-14 HP

**CHIPPER/SHREDDER**
1692902-5.5HP




| IGNITION SWITCH | |
|---|---|
| POSITION | CIRCUIT MAKE |
| 1. OFF | G & M |
| 2. RUN | B & L |
| 3. START | B & L & S |

**CHIPPER/VACUUM**
1692466-8HP
1692586-8HP



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